

# VARUN KUMAR

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## SUMMARY

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- More than **10 years** of experience in IT with extensive experience in developing highly scalable **PaaS solutions using Azure/AWS** cloud services and leading high-performance technical teams.
- Microsoft Certified Azure Solution Architect (MCSE)
- Result oriented and focused with effective delivery management and communication skills.
- Demonstrated leadership capabilities, performing under immense pressure and building strong client relationships.
- Proven experience in managing geographically distributed teams in an onshore-offshore split model.
- Vast experience in direct engagement with stakeholders at all levels including CxOs, MDs, Business owners, Architects, SMEs, Vendors, Consultants, and Designers etc.
- Led the end-to-end rollout of two full-scale software products in the worldwide marketplace.
- Exposure to both **Agile & Waterfall** methods of product development.
- Exposure to storage and processing **big data** for data analysis.
- Preparing “**Proof of Concept**”, provides product **demonstrations** and conduct technical **trainings**.
- Have a good understanding of implementing design patterns, SOLID principles, code optimization, performance optimization and database queries.
- Letter of appreciation from multiple international clients for handling onsite project.
- Set up and successfully ran a software services and products startup, for two years before shutting it down.
- Author of two technical **blogs** and one research paper, and contributor to some other blogs.
- Holding US: **B1 Visa** valid till 2025.

## EDUCATION

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Malout Institute of Management & Information Technology, Malout Punjab Technical University <b>Bachelor of Technology</b> , Department of Information Technology	72.32%	2009
Kulachi Hansraj Model School, Delhi Central Board of Secondary Education HSC (XII)	65%	2005
Sri Guru Nanak Public School, Delhi Central Board of Secondary Education SSC (X)	71%	2003

## TECHNICAL SUMMARY

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<b>Technologies</b>	: C#, Web API, <b>Entity Framework</b> , ASP.net, VB.net, AngularJS, SSRS, VB6
<b>Cloud Services</b>	: Azure Serverless, Azure PaaS, Azure IOT Suite, Azure Brokered Messaging, AppInsights, Log Analytics, Azure SignalR, Amazon Redshift, RDS, Elastic Cache (Redis), SQS, Kinesis firehose, S3, Glacier
<b>Database Knowledge</b>	: Microsoft SQL Server, Oracle 11g
<b>NOSQL</b>	: <b>MongoDB</b> , CosmosDB, Redis
<b>Version Control Tools</b>	: SVN, VSTS, Git
<b>Others</b>	: Optical Character Recognition ( <b>OCR</b> ), Omniflow, Omnidocs, Infragistics, Aspose Total, Hyland Anydocs, <b>SignalR</b> , Google/Firefox <b>Push Notifications</b> , Zopim, Google Analytics, SumoLogic, New Relic, Document and Cheques Scanner Integration, JIRA, <b>Agile and scrum</b> .

## PUBLICATIONS

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- Varun Kumar and Himani Gupta (2017): "Performance Improvement of Map Reduce through Enhancement in Hadoop Block Placement Algorithm", International Journal of Computer Science and Mobile Computing, Vol.6 Issue.4, April 2017, pg. 389-396, ISSN 2320-088X, Impact Factor: 6.017

## CERTIFICATIONS

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- Microsoft Certified: Azure Solutions Architect Expert
  - AZ-302: Microsoft Azure Solutions Architect Certification
- Microsoft Certified Solutions Expert (Cloud Platform)
- Microsoft Certified Solutions Associate
  - Architecting Microsoft Azure Solutions (70-535)
  - Developing Microsoft Azure Solutions (70-532)
  - Perform Big Data Engineering on Microsoft Cloud Services (70-776)
  - Developing SQL Databases (70-762)
  - Developing Microsoft Azure and Web Services (70-487)

## EXPERIENCE

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- **MICROSOFT**

- **Consultant – Cloud Services [Jan, 2018 – Present]**

Part of Enterprise Services team for the Cloud applications development, maintenance and enhancements.

**Tools and Technologies Used:**

C#, Azure technology Stack, Web API, Entity Framework, SQL Server, TFS/VSTS, Azure IOT Suite, Agile and scrum.

**Responsibilities:**

- Providing consultancy as a cloud services SME to Microsoft Services Customers.
- Stakeholder management, Client handling and Vendor Management.
- Leading a geographically distributed team of 5-10 members, responsible for development and post-production maintenance and enhancements.
- Regular status reports to Customer, TAM and project manager.
- Ensuring the code practices followed and quality gates met.
- Following the complete ALM process right from code to build and release.
- Responsible to drive Knowledge sharing Sessions in Domain and MACH (campus Hires) technical readiness.
- Part of campus hiring drives across Microsoft India Global Deliveries and Lateral hiring drives within Domain.

**Projects:**

- **Contact Management Programme – Thames valley police and Hampshire constabulary, UK**

[Duration: **01/18 - Present**]

CMP is the emergency management system, in joint collaboration of Thames Valley Police and Hampshire Constabulary, wherein the citizens of UK can report an Incident through call (999, 101), SMS and web portal. The application is developed on CRM dynamics with around 40 Integrations through Web API and Azure Service bus.

- **Safe Flight– Maple Leaf Food, Canada**

[Duration: **10/18 - Present**]

Safe Flight is Azure IOT based solution for MLF to advance the care of poultry during the transport from growing farms to processing plants. This will help MLF to reduce the overall Death on arrival rate by 50% with the help of real-time environment monitoring and advance analytics to alert drivers and central monitoring team.

- **RATEGAIN**

RateGain is a product-based company that provides data analytics and BI services to hospitality and travel companies and

helps them in better revenue generation.

### **Product Lead [Feb, 2016 – Jan 2018]**

Working on Product for Hospitality industry used by most of the Hotel Groups across the globe.

#### **Tools and Technologies Used:**

C#, Azure Brokered Bus, Worker Role, Redis cache, Hangfire, Web API, Log4net, Windows Services, Entity Framework, AngularJS, SQL Server, MongoDB, Amazon Redshift, SVN, JIRA, SignalR, Google/Firefox Push Notifications, Sumologic, Agile and scrum.

#### **Responsibilities:**

- Developed highly scale framework **using Azure Brokered Service, Redis Elastic Cache, Hangfire and Worker role** for high availability and distributed computing.
- Improved product performance using extensive post-production analytics.
- Drove product plans, feature specifications, user experience, and partner relationships for software product.
- Conducting market research to understand consumer behavior and competition, and in utilizing post-production analytics and customer feedback to suggest re-alignment of roadmaps.
- Following agile practices and participating in backlog creation, sprint planning and daily SCRUM.
- Study & Embed latest technologies like **Cloud Services**, Signalr, and **NOSQL**, **SonarQube** etc. to enhance product capabilities.
- Handling and mentoring development team of 8-12 members and daily code review.

#### **Projects:**

- **Rezgain**

[Duration: **04/17 - Present** ]

Rezgain is an online hotel channel manager and a highly scalable PaaS solution, working on Azure, that effectively automates the process of online rates and inventory distribution, near real-time, minimizing the hassles associated with overbooking and mismatched inventory.

- **PriceGain Hotels - Optima**

[Duration: **02/16 – 04/17** ]

PriceGain Hotels Optima helps the clients in Hotel Industry across the globe (majorly in USA and Europe) to gain maximum revenue. The unique product collects data from multiple OTAs (such as Expedia, TripAdvisor) through **Web Crawling**, applies algorithms on the same and helps Hotels to decide on the revenue for each Room per night.

#### **Achievement(s):**

- Achieved **Star Performer** of the Quarter award for two consecutive Quarters.

- **RESOLWEB**

Resolweb was a Startup setup by me and 3 other partners to provide a complete array of application development, eCommerce solutions, website development and internet marketing solutions with a target to make positive impact EACH AND EVERY TIME in the lives of customers by exceeding expectations and delivering on-time and quality solutions. Along with services, Resolweb had two products: Integrated Resource Management and Resolweb Imaging.

### **Co-founder and Director of Engineering [Sep, 2014 – Sep 2016]**

As a Director of Engineering, I was managing all the aspects of SDLC for the service projects as well company's products.

#### **Responsibilities:**

- Creating and mentoring high performance and technically sound team of developers and consultants.
- Leading all phases of SDLC right from requirement gathering to Project closure.
- Implementing and executing Agile Scrum practice.
- Driving product plans, feature specifications, user experience, and partner relationships for software product.

- Finding and recruiting the right talent for the projects.
- Project and Delivery Management.
- **EXL SERVICES**  
(NASDAQ: EXLS) is a leading provider of IT services, decision analytics, operation management, and technology platforms to organizations in insurance, healthcare, banking and financial, travel, and transportation among others.

**Lead Asst. Manager [Sep, 2014 – Feb, 2016]**

Working in ECM-deliveries for Leading Insurance and Healthcare companies in US.

**Tools and Technologies Used:**

C#, Web API, Windows Services, Entity Framework, SQL Server 2012, OCR and Imaging, TFS, SSRS

**Responsibilities:**

- Understand client's goals and their unique business needs with respect to Document Imaging & related products/platform implementation and develop solution.
- Provide strong technical understanding of the Mailroom Operations, eFax, email etc with the ability to discuss and demonstrate how they can integrate to meet client's business needs.
- Preparing "**Proof of Concept**" and provide demonstrations of the optimization of processes and practices using technology like **OCR, ICR, automated classification, Document Processing** etc.
- Acted as a Scrum Master multiple times conducting daily SCRUM meetings, maintaining the product backlog, holding sprint reviews etc.
- Organize various learning sessions for the entire firm globally via online virtual meetings.
- Managing Exl's relationship with vendors to ensure teams within EXL are using the best technology and have access to the training material they need to excel at their deliverables.
- Enforce Information security policies among team for sensitive data protection.

**Projects:**

- **Genworth Insurance, USA (OCR based system for Automated classification and processing)**

[Duration: 11/14 – 01/16 ]

It's an OCR based system to extract electronic data from documents, sent by GNW customers, for different LOB via multiple mediums: Email, eFax and US Postal Services. The physical documents are scanned at MRO located in USA. Classification of documents is done automatically in order to identify the type (e.g. claim, VA etc).

- **American Express, Global Business Travel (AICS- Automated Imaging and Conversion Solution)**

[Duration: 04/15 – 02/16 ]

It's an Exl product used by American Express (GBT) and few other clients. It provides direct integration with Outlook, SMTP, Exchange Server, SFTP and custom database. It reads email, extracts & filter attachments, download eFax and convert those into OCR enabled Tiff Images with vast parameters to customize like DPI, Compression technique, filter attachment types, multi/single page tiff images, document types (word, pdf, excel etc)

- **NEWGEN SOFTWARE TECHNOLOGY LTD.**

Newgen Software Technologies was founded in 1992 and is the market leader in Business Process Management (BPM) and Enterprise Content Management (ECM).

**Sr. Software Engineer [Feb, 2011 – Sep, 2014]**

Worked in banking domain, on various bank payment solutions such as CTS, EFT, PDCMS DDS etc. for various international banks including Bramer banking corporation [Mauritius - onsite], Imperial bank [Kenya and Uganda - onsite], RAK Bank [UAE], PBL [Ghana], HSBC, Bank of America etc.

**Tools and Technologies Used:**

C#, Vb.net, Web Services, Windows Services, SQL Server 2008, Oracle 11g, Omnidocs, Omniflow, OCR, SVN

**Responsibilities:**

- Worked closely with International clients for requirement gathering, analyzing & development of banking solutions.
- On-site system study, deployment and integration with the other banking systems (including core banking, Internet Banking) for various international banks.
- Understanding the requirement mentioned in the FSD and developing application (design and coding).
- Working as an SME and consultant and providing technical solution for various banking problems.

**Projects:**

- **Bramer Banking Corporation, Mauritius (Image based cheque clearing system)**

[Duration: 04/11 – 08/11 ~ 5 months: 3.5 months off-shore and 1.5 months on-site ]

Image based cheque-clearing system or CTS is an online clearing system where cheque images and Magnetic Ink Character Recognition (MICR) data are captured at the collecting bank branch and transmitted electronically.

My role was to design & code the project and implementation of the same on client side in Mauritius.

- **Imperial Bank, Kenya and Uganda – Bank Payment Solutions**

[Duration: 09/11- 01/13 ~ 16 months: 8.5 months off-shore and 7.5 months on-site ]

Electronic funds transfer system (EFT) is the electronic system for the transfer of money from one account to another, either within a single financial institution or across multiple institutions, through computer-based systems.

I was involved in the entire SDLC of the project and interaction with client for requirement understanding and following the change requests.

- **HSBC (Image based cheque clearing system and OCR based extraction)**

[Duration: 02/13 – 01/14 ~ 11 months: 4 months off-shore and 7 months on-site ]

I was involved in the database and architectural design of the project as per the existing system, development and implementation of the same on client side in Mumbai.

- **Prudential Bank, Ghana (Image based cheque clearing system)**

[Duration: 02/14 – 08/11 ~ 7 months: 4 months off-shore and 3 months on-site ]

**Achievement(s):**

- **Letter of appreciation from** Bramer banking corporation (Mauritius), Imperial bank (Kenya), HSBC Bank, Prudential bank (Ghana) for handling onsite project and helping reduction in turnaround time with efficient use of resources.
- **EDUCOMP SOLUTIONS LTD.**

Educomp is the largest education company in India, established in 1994. I worked here in the e-learning and in-house management domains.

**Executive Software Engineer [Oct, 2009 – Feb, 2011]**

**Responsibilities:**

- Analyzing business requirements and transforming raw requirements into core technical requirement.
- Responsible for Low Level Design and versioning of the documents and code using Visual Source Safe.
- Transforming technical requirements into software product/ application [Coding].
- Preparing reports and participating in quality management activities.
- Unit testing and conducting peer code review exercise.

**Achievement(s):**

- **Developed solution** for the automation of the development process and management report generation. This helped to reduce the project cost by 40% and to increase the efficiency of employee by almost 100%.