

# Rohit Nair

A Problem Solver from Seattle, WA

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## Education

**Master of Science in Computer Science** GPA **3.81/4.00** - *Indiana University Bloomington* **May 2017**  
**Bachelor of Engineering, Computers 70.2%** (Distinction) - *University of Mumbai, India* **May 2012**

## Technical Proficiency

**Certifications:** [AWS Solutions Architect Associate](#), [AWS Certified Cloud Practitioner](#)

**Languages:** Java, C#, C, Python | AWS, Twilio | Databases: Microsoft SQL Server, MySQL, DynamoDB | Xamarin, Xamarin Forms

**Web Development:** HTML5, JavaScript, Node.js, CSS, Bootstrap, React.js, ASP.NET, .NET Core | MVC, Git, CI/CD, Jenkins, Mockito

## Coursework

Algorithms Design and Analysis, Data Structures, Object Oriented Development and Design, Computer Networks, Distributed Systems and Cloud Computing, Machine Learning, Artificial Intelligence, Advanced Operating Systems

## Work Experience

**Amazon, Seattle – Software Development Engineer** **Aug 2019 – Current**

- Implemented integration tests for SQS (Amazon’s messaging queue) usage in our product
- Designed and implemented charge granularity to support multiple businesses within an order
- Fixed customer overcharges using new tax calculations correcting \$100,000s annually, saving manual accounting corrections
- AWS: Analyzed trends and scaled up the service for the Q4 2019 holiday season peak
- Followed Test-driven development using JUnit, Continuous deployment, Java Spring MVC

**Bloom Insurance Agency, Bloomington – Full Stack Software Developer** **May 2016 – July 2019**

- **VBE:** Developed a tool to collect beneficiaries’ health information using Twilio processes and connect it to their enrollment
- **SignalR:** Implemented asynchronous push communication to fetch information from client websites
- **Email-A-Quote:** Designed and implemented a feature enabling an insurance quote to be emailed to customers
- Continuous debugging of production exceptions and performance enhancements using Raygun and New Relic

**Infosys Ltd., Pune, India – Systems Engineer** **May 2013 – Apr 2015**

- Implemented a tool to enhance the telephony operations of Time Warner Cable, USA
- Ensured the stability of apps and enhanced them to reduce issues/outages

## External Projects

**OneStopReads : MEAN stack** – A website to read articles from your favorite sources in a single place **Sep 2018 – Oct 2018**

**Extended Memory : Xamarin Forms** – Developed an app to serve as a memory bank; IOS, Android **Oct 2018 – Apr 2018**

**JsPsych : React** – Automated the creation of dynamic psychology research experiment **Aug 2016 – Dec 2016**

**Certificate Generator** – A 100-fold improvement in the export/import certificate generation **Nov 2012 - Feb 2013**

## Academic Projects

**Event Pal:** Developed a website where people can organize or join events based on their interests **Jan 2017 – Apr 2017**

**Chat Application:** A client server application using socket programming, hosted on AWS **Nov 2016**

**Distributed K-Means:** Implemented distributed mini-batch k-means clustering using HARP in Hadoop **Sep 2016 – Oct 2016**

**Network Forensics:** Implemented a packet analyzer to study PCAP traces of network packets **Sep 2016**

**PageRank Algorithm:** Implemented in a distributed environment on a large data set using the MPI library **Sep 2016**

**Computer Vision:** Age & Gender Estimation (70% Accuracy), Optical Music Recognition, Image warping **Jan 2016 – Apr 2016**

- Convolutional Neural Nets, k-Nearest Neighbors, Naïve Bayes, SIFT, RANSAC, Hidden Markov model

**Artificial Intelligence Agents:** Genetic optimal chromosome finder, Checkers, Tic-Tac-Toe, Robot path finder **Aug 2015 – Nov 2015**

**Kaggle Challenge:** Developed a multi-label classifier for multiclass data using logistic regression, SVM and random forests **Dec 2015**

**Distributed Intrusion Detection:** Detect malicious behavior based on Windows Registries of hosts in a LAN **Jun 2011 – Apr 2012**

## Leadership

**ICCA:** Informatics and Computing Consulting Association, **Indiana University Bloomington** **Oct 2016 – May 2017**

**NSS Ambarnath Youth Wing (NGO), Mumbai** – Executive Vice President **Mar 2010 – Apr 2014**