

# Ashwin Jose Poruthukaran

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## SUMMARY

MS Graduate in Computer Science with 2+ years of software engineering experience.

## EDUCATION

<b>Master of Computer Science</b> (Arizona State University, Tempe, AZ, USA)	3.73/4.00 GPA	May 2020
<b>B. Tech, Computer Science</b> (Cochin University of Science & Technology, India)	8.57/10.00 GPA	May 2016

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, Ruby, SQL, C++, HTML5, JavaScript, CSS, AJAX

**Libraries & Frameworks:** Spring, Hibernate, React, Redux, Node, Express, Rails, JDBC, Docker, Django, Flask

**Cloud Platforms:** AWS S3, AWS EC2, AWS SQS, GCP App Engine, GCP Compute Engine.

**Databases & Big Data:** PostgreSQL, MySQL, MongoDB, Hadoop, Spark.

## PROFESSIONAL EXPERIENCE

**Software Developer, Mathisit, Scottsdale** July 2020 - Present

- As a full-stack Node.js developer, I develop production-ready REST based web applications using Node.js, React.js, Redux and Next.js adhering to coding guidelines set forth by Facebook and Airbnb.
- Developed RESTful Ruby on Rails applications coupled with relational databases like PostgreSQL with REST based endpoints to serve iOS Mobile applications.
- Deployed web applications on Heroku with integrated CI/CD pipelines.

**Software Developer(BTA), Deloitte USI, Bengaluru, India** Aug 2016 – July 2018

- As an SAP ERP stack-based software developer, I developed and optimized custom solutions using ABAP and SQL and served as primary developer for modules including SD, MM and FICO for North American clients.
- Worked extensively on relational databases, using SQL to design databases, perform and optimize CRUD operations whilst optimizing data access patterns.

**iOS Developer (Intern), QBurst Technologies, Kochi, India** May 2015 – June 2015

- Developed an Apple Watch app to improve productivity by tracking the user's physical activity and vitals.
- Developed an iOS mobile app to work alongside the Apple Watch app and provide real-time statistics.

## STUDENT TECHNICAL EXPERIENCE

**Software Developer (Research Aide), Ira A Fulton Schools of Engineering, ASU** Feb 2020 – May 2020

- Developed web-based, annotation to machine learning inference pipelines using Python, Django, Docker, Computer Vision and Deep Learning to advance research in lunar and martian surface analysis. (Deepgis)
- Developed docker-based containerized robotic simulation environments using ROS, Gazebo, Python and Shell scripting to facilitate collaborative programming and simulations for robotics scenarios (OpenUAV).

## TECHNICAL PROJECTS

### Patent Similarity Dashboard

- Developed an interactive web-dashboard with a REST Java Spring backend that populates visualizations based on the results of topic modelling and NLP algorithms like LDA, Tfidf and Word vector embeddings.
- Technology: Java, Spring Boot, MySQL, Node, React, JavaScript, HTML, CSS, Ajax, JQuery, Tensorflow, REST

### Driving Companion – Sleep detection from heartrate using Machine Learning

- Developed an Android app that continuously monitors heartrate using Fitbit devices and detects drowsiness while driving using a combination of ML models like KNN, LR and SVM.
- Technology: Android, Java, Fitbit SDK, Google Maps SDK, Python, Pandas, Scipy, Flask

## ACHIEVEMENTS

Winner, InfernoHack 2018, for developing an Alexa Skill & Google Home voice app to allow easy processing of online repeat orders while providing customer insights for the organization at the same time.