

Avi Menon

A lifelong learner and developer excited about the distributed world and fast-paced cloud teams

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EXPERIENCE

Software Engineer

Apple Inc.

📅 March 2019 – Ongoing 📍 Cupertino, CA

- Designed a client-server IPC service in C++ to query health and state on production audio software which lead to reducing regression defects by 28%
- Implemented MongoDB integration into production code to persist system information to profile multiple Apple products
- Created dashboards to visualize packet loss in bluetooth music and to monitor test pipeline health using Javascript, and Splunk
- Improved integration and unit test coverage by 38% and setup several CI pipelines on Jenkins for a test-driven workflow

Engineering Project Manager (Intern)

Apple Inc.

📅 Sept 2017 – Dec 2017 📍 Cupertino, CA

- Developed a dashboard in Python to analyze and monitor software test suite metrics like RAM usage and performance
- Led the coordination of international contract manufacturers to schedule product builds and meet tough deadlines

Software Tools Developer (Intern)

Apple Inc.

📅 Sept 2016 – Dec 2016 📍 Cupertino, CA

- Designed and implemented a powerful playback and recording engine with Objective-C for precise music validation
- Deployed a REST API with Express.js and jQuery for uploading and sharing acoustic test results on MongoDB

iOS Software Engineer (Intern)

Apple Inc.

📅 Jan 2016 – Apr 2016 📍 Cupertino, CA

- Delivered iOS test applications for several audio software prototypes in Objective-C and Swift for data visualization and bug triaging
- Developed a suite of stress tests on Matlab for virtual studio technology tools and software DSP applications

EDUCATION

BASc. Honours Electrical and Computer Engineering

🎓 University of Waterloo

📅 Sept 2013 – June 2018 📍 Waterloo, ON

IOT and Cloud Systems Database Systems Operating Systems
Computer Security Data Structures and Algorithms

SKILLS

Programming C++ • Java • Javascript • Python

Technologies Storm • Hadoop • Redis • Jenkins

Cloud Tools AWS • Heroku • MongoDB • Docker

Intrapersonal Collaboration • Communication

PROJECTS

Mindful Music

🎧 Spotify API • Node.js • Python • Docker

📅 Aug 2019 – Sept 2019

Analysis and visualization of recently listened songs and their contributions to the listener's mood using musical characteristics. Containerized and deployed to scale on Amazon ECS

Twitter Now

🐦 Twitter API • Storm • Java • Redis

📅 May 2019 – Jul 2019

Aggregation of live trending Twitter hashtags using Twitter firehose and visualized with D3

Colabor8

✓ Node.js • MongoDB • Socket.io • Heroku

📅 Mar 2019 – Apr 2019

Real-time chat room with task tracking, persistence, and lookup for team collaboration. Continuous deployment supported with Heroku dynos

ONLINE COURSES

Cloud Applications I: Infrastructure

Cloud Applications II: Big Data Applications

Distributed Programming in Java

AWS Serverless APIs

HTTP | Web Servers

ABOUT ME

🎵 Music Producer
Check me out!

🏋️ Fitness Enthusiast
Find me at my desk or the gym

📖 Avid Reader
Lots of mystery and sci-fi