

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++ and Java to query and update a job and heartbeat microservice to improve resiliency and throughput of asynchronous tasks by 28%
- Integrated gRPC in HTTP/2 transport layer between first-party APIs across multiple services in Java and C++
- Improved test coverage by 43% by simulating live hardware using Google Mock abstractions and creating several CI pipelines
- Implemented MongoDB integration into production code to persist system information to profile multiple Apple products

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 Java • C++ • Javascript • Python

Technologies Node.js • Spring • GraphQL • Storm

Cloud Tools Docker • AWS • Maven • Heroku

Databases MongoDB • PostgreSQL • Redis

PROJECTS

KicksList

👟 Django • Python • PostgreSQL • Docker

📅 Feb 2020 – Mar 2020

Containerized backend API made with Django web framework to serve a wish list for shoes. Supports user authentication, and detailed model lookup

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. Deployed to scale on Amazon ECS

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