

Ammar Fatehi

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EDUCATION

The University of Texas at Austin

BS Electrical and Computer Engineering | GPA: 3.45/4.00

May 2023

Relevant Coursework: Algorithms, Data Structures, Software Design, Data Science, Operating Systems

TECHNICAL SKILLS

Languages: Java, Python, Golang, C/C++, TypeScript, JavaScript, Scala, SQL (Postgres)
Technologies: Spring, React, Node.js, Express.js, MongoDB, Git, AWS, Google Cloud, Spark, Conductor
Certification: AWS Cloud Practitioner, Python Specialization by UMichigan

EXPERIENCE

Amazon Payments | Software Engineering Intern

Aug 2022 – Current

- Developed a tool for operations team to search, update and view current information of refund transactions.
- Created multiple java micro services to handle searching and backfilling 3000+ refunds at time for ease of use.
- Implemented a modern UI in React to display transactional information on 1 million+ daily refunds.

Expedia Group | Software Engineering Intern

May 2022 – Aug 2022

- Developed a Spark application in Scala to aggregate and flatten marketing data to persist it into one table.
- Ingested data from disparate sources using SQL and Google Analytics API to construct data views for BI tools.
- Implementing a cloud-first data pipeline that ingests transactional data from multiple sources into a table.

Tesla | Software Engineering Intern

Aug 2021 – Jan 2022

- Developed 4 microservices using Golang used for all email & text communication Tesla has with customers.
- Created a tree structure for folder management to shrink multiple DB queries into one reducing runtime by 60%.
- Solved a conductor race condition issue by developing a script to delete duplicate indexes in MongoDB tables.
- Developed 5+ swagger pages for efficient endpoint testing and compliance with the security team.

JP Morgan Chase & Co. | Software Engineering Intern

Jun 2021 – Aug 2021

- Created an application used by the Operations team to improve trade speeds, & reduced operations time by 40%.
- Developed multiple microservices using Spring Boot with 10 endpoints for flexible data search and transfer.
- Implemented a React frontend for searching and reprocessing transactions and provide teams a view into the data.

HiPR Innovation | Software Engineering Intern

May 2021 – July 2021

- Developed HiPR's healthcare portal using React and Next.js which aggregates medical data for physicians.
- Utilized AWS lambdas to build and maintain serverless APIs to support web and mobile applications.
- Redesigned HiPR's website frontend using Tailwind CSS and Typescript.

Instok | Software Engineering Intern

Sept 2020 – Dec 2020

- Created a notification system for 20,000+ customers using Python and MongoDB streams.
- Utilized Node.js within a MERN stack to display 100,000+ products on the Instok website.
- Designed and created a landing page using React Hooks that serves 10,000+ monthly users.

PROJECTS

Fog | Flask, MongoDB, React, Next.js, GCP

- Developed a MVP for a functioning HaaS system to facilitate the exchange and billing of hardware resources.
- Implemented a Flask API to interface MongoDB and store encrypted user and project information.

DevHub | JavaScript, MongoDB, React, Redux, Express.js, Node.js

- Engineered a social media website where developers can connect with each other and get hired.
- Created multiple JWT secured Rest API endpoints allowing users to create profiles and participate in discussions.

NutriApp | JavaScript, React Native, Python, Flask, Google Cloud

- Created a mobile app that allows users to take a picture of food labels and receive ingredients information.
- Developed the back-end in Flask and store user data in an Azure SQL database.

Trading Brokerage | Python, Flask, SQLAlchemy

- Engineered a paper trading brokerage API with a server-client interface for an Algorithmic trading competition.
- Implemented a Flask REST API to allow users to trade stocks and keep track of their portfolios.