

AMMAR FATEHI

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EDUCATION

The University of Texas at Austin

May 2023

BS Electrical and Computer Engineering | GPA: 3.47/4.00

Minor in Business Foundations

Relevant Coursework: Algorithms | Data Structures | Software Design & Implementation | Digital Logic Design
Linear Systems & Signal | Probability & Random Processes | Linear Algebra | Discrete Math

SKILLS

Languages: Python | C | C++ | JavaScript | TypeScript | Java | SQL (Postgres)

Frameworks/Technologies: MongoDB | Express.js | Node.js | React.js | Git | AWS EC2 | HTML5 | CSS3 | LaTeX

EXPERIENCE

JP Morgan Chase & Co.

Incoming Software Engineering Intern

June 2021 - Aug 2021

- Working on the Post Trade Technology team, tech stack consist of Java Spring Boot, React and Cassandra.

HiPR Innovation

Software Engineering Intern

Apr 2021 - Present

- Created a dashboard using React for physicians to monitor and track patient data, reducing workflow time by 60%.
- Utilized AWS lambdas to build and maintained serverless APIs to support multiple web and mobile applications.

Instok

Software Engineering Intern

Sept 2020 - Dec 2020

- Developed a discord bot using Python and MongoDB streams to notify users when in demand products are in stock.
- Utilized Node.js within a MERN stack to display product status on Instok website.
- Designed and created a landing page using React hooks that serves 10,000+ monthly users.

Micromouse Robotics

Software Team Lead

Aug 2020 - Dec 2020

- Managed a team of 4 to develop a simulator for an autonomous maze solver for the Micromouse robotics competition.
- Implemented the A* algorithm and a min-heap in Python to find the shortest route efficiently around obstacles.
- Utilized Pygame to build an interactive GUI to simulate the robot during the competition.

Polaris Robotics

Founder and VP of training and recruitment

Aug 2018 - Dec 2019

- Mentored 30+ underclassmen in robot build, programming, and driving skills for the Vex Robotics Competition.
- Programmed robots in RobotC for teleoperated and autonomous control, including PID and path following.
- National ranking- 21/10,000+, International ranking - 48/15,000+.

PROJECTS

DevHub

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

Mar 2021 - Present

- Engineered a social media website where developers can connect with each other and get hired.
- Created 10 Rest API endpoints using Express and implemented jwt protocol to secure private routes to interact with a MongoDB database allowing users to create profiles and participate in forum discussions.
- Developed multiple database schemas and validation models to ensure data integrity and efficient storage.
- Implemented React Router on 10 routes for rendering desired components without reloading the page.

NutriApp

JavaScript, React Native, Python, Flask, GCP

Oct 2020 - Nov 2020

- 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 into an Azure SQL database.
- Implemented Google's Machine Learning Vision API to retrieve text from images.
- Collaborated with a team to practice version control and AGILE methodology.

Trading Bot

Python, Pandas, Mathplotlib, AWS EC2

May 2020 - Sept 2020

- Developed and hosted a stock market bot on AWS EC2 that constantly executes paper trades.
- Optimized buy/sell signals based on given indicators such as MACD & RSI to maximize profits.
- Integrated with Alpaca API to fetch historical market data for back-testing of trading strategies.

Trading Brokerage App

Python, Flask, SQLAlchemy

Jul 2020 - Sept 2020

- Engineered a paper trading brokerage API with a server client interface to host an Algorithmic trading competition.
- Implemented a Flask REST API to allow users to trade stocks and keep track of their portfolio.
- Utilized a SQL database to keep track of trading activity among competitors and create a leader board.