Akshat Jain

https://akshatjain1.github.io

Education

University of California, Berkeley May 2022

Bachelors in Computer Science — GPA: 3.80

- **Extracurricular Activities**: PlexTech (Founder / President), FinTech at Berkeley (Payments Member), IEEE

Experience

- **Software Engineering Intern — Thrive Education** *Fall 2020*
  - **E2E Feature**: Worked with Google Calendar and Zoom OAuth 2.0 in Vue.js, FastAPI and SQL to lead to an automated client appointment and scheduling feature, thus removing the previous manual workflow.
  - **Chrome Extension**: Automated the tedious task of psychologists manually opening each experiment and test directions in an external dated platform, reducing number of clicks needed from an average of 25 down to 2.
  - **Documentation & Structure**: Redesigned the FastAPI backend to lead to greater documentation, scalability, and security by adding response/body models and role based access control to over 45 routes.

- **Full-Stack Lead Developer — Berkeley Mobile (Extracurricular)** *Aug 2019 - Present*
  - **Front-End Refresh**: Utilized current user stories as a heuristic to lead development in fully revamping Berkeley's official campus app in React Native eventually reaching a 36% user base increase.
  - **Web Scraping**: Deployed a Python (Selenium) data aggregation script on GCE: Scraping relevant campus Facebook Events data and storing in Firebase. Deployment of this feature saw a 7% active usage increase.

- **Software Engineering Intern — Visa** *Summer 2020*
  - **Agile Workflow**: Led internal intern team in creating a POC, Visa Curbside by implementing agile management ideals such as sprint planning/review and leading team standups.
  - **React Data Flow**: Utilized React's Context library and the Axios library to dynamically load data from the back-end API across 25 separate endpoints.
  - **Architecture Rewrite** : Transitioned the existing Django architecture to a new FastAPI server, increasing performance by 300%, implementing automatic OpenAPI documentation, and scalable Pydantic data validation.

- **Undergraduate Research Assistant — UC Berkeley** *Spring and Summer 2020*
  - **MERN Stack**: Built an internal full stack MERN application to interact with an EV charge-optimizing algorithm with secure authorization (JWT Tokens) and responsive UI Design.
  - **AWS & Docker**: Containerized the application with Docker and utilized AWS EC2 and DynamoDB to successfully deploy with a custom downtime-tracker tool with quality assurance test cases.

- **Software Engineering Intern — Hewlett Packard Enterprise** *Summer 2018 and 2019*
  - **Data Analysis**: Built streamlined profile reports for millions of company open source vulnerabilities and customer data with Node.JS. This secured funding for an internal open source tracking application.
  - **UI Updates**: Worked under an Agile workflow to add 38 mini-features and UI updates for an internal open source tracking application (VB.NET and JavaScript), improving user research reports.
  - **Desktop Application**: Created a CRUD desktop GUI with Python (Tkinter) to paginate tens of gigabytes of sensitive product data. Wrote a separate Python script to automate its data cleansing and saved 2 hr/week of tedious manual labor.

Projects

- **Choices**: A mobile app that recommends foods to try (using collaborative filtering) from an image of a menu. React Native, Python (Flask), Docker, GCP.
- **Smart Learn**: A desktop multiplication game that analyzes academic metrics based on multiple subtle factors. Python
- **Close Cash**: A peer-to-peer ATM System with bank-like security. MongoDB, Express, React, Node.js.

Technical Skills

- **Languages/Frameworks**: Python, FastAPI, Flask, Node.js, Express, React (Native), Angular, Vue, Java
- **Technologies**: AWS, GCP, MongoDB, SQL, Docker, Git, Jira, Selenium, Firebase, OpenCV