Sachin Chhabria

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Education

University of California, Berkeley   Aug 2020 - Dec 2024

B.S. Electrical Engineering & Computer Sciences (EECS), 3.74 GPA

Relevant Coursework: Data Structures & Programming Methodology, Efficient Algorithms & Intractable Problems, Intro to Software Engineering, Intro to Machine Learning, Probability & Random Processes, Discrete Math & Probability Theory

Skills

Languages: JavaScript, TypeScript, Python, Java, C, CSS, Ruby

Tools/Technologies: React, Node, Redux, Angular, Flask, Django, Docker, Postman, Jira, MySQL, JUnit

Work Experience

Software Engineering Intern   **Amazon - Navigation Experience Core**   May 2023 - Aug 2023

- Designed & implemented a configuration system to add celebratory themes (e.g., Prime Day) to the Amazon website; reduced a 32-hour coding task involving 23 files to a 10-minute update in one config file.
- Leveraged A/B framework & Sass to transition codebase from hardcoded CSS to dynamic styling based on region (e.g., Diwali in India) and date (e.g., Prime Day).
- Developed a suite of daily Scala jobs to fetch and parse data used to rank tabs on the Amazon navigation bar.

Software Engineering Intern   **Amazon Lab126 - Consumer Robotics**   May 2022 - Aug 2022

- Designed & built an internal website for a smart home device's Content Management System (CMS) using React, Redux, React Context API and DynamoDB.
- Automated tracking deployments to gamma/prod environments with AWS CodePipeline API, achieving a 30% reduction in time-to-production for new assets/features.

Projects

- *2023 - Lanchita* - Led two others in developing a full-stack web application for planning trips; built the back end using Ruby on Rails and the front end using React, Redux and Material UI; integrated the Google Maps API to embed maps for interactive route planning; used the GPT API to generate itinerary recommendations; deployed on Heroku.

- *2023 - Vocabella* - Joined two others in building an immersive language platform using the GPT API to generate conversation starters and topics.

- *2022 - EcoGuard* - IoT tool to optimize environmental parameters (e.g., moisture, pH, etc.) for my plants back home remotely; used Python (Flask) backend and Vue.js frontend; integrated Raspberry Pi and Arduino sensors for real-time environmental monitoring; synced with OpenWeatherMap for weather data.

- *2021 - GitLite* - Version-control system in Java that mimics the features of Git.

- *2021 - Scheme Interpreter* - Interpreter for the Scheme programming language; used a Read-Eval-Print process to parse Scheme expressions into values.

Leadership & Activities

Quant Research Officer   **Berkeley Investment Group**   Aug 2020 - May 2023

- Led a team of six students in researching quantitative models, including mean reversion, pairs trading and options.
- Pitched five companies into an investor fund with $130k in Assets Under Management and advised on 10+ companies.

Web Developer   **Student Association for Applied Statistics**   Jan 2021 - May 2023

- Collaborated with UX/UI designers to develop and maintain the association's website.
- Integrated dynamic content, event calendars and member registration forms.