Aakash Sell

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Education

Carnegie Mellon University **Pittsburgh, PA**
B.S. in Electrical and Computer Engineering **August 2021 - May 2025**
Minor in Business Administration

Relevant Coursework:
Intro to Embedded Systems, Intro to Computer Systems, Structure and Design of Digital Systems, Principles of Imperative Computing, Principles of Microeconomics, Intro to Accounting

Experience

Justworks **New York, NY**
Data Science Intern *May 2023 - August 2023*

- Collaborated with stakeholders to define and scope out a project regarding failed withdrawals from customers' payroll bank accounts.
- Aggregated data from multiple tables using a SQL script with 100+ lines.
- Developed a data science model with Python and Scikit-Learn that had an 88% accuracy in predicting payment failure.
- Created a detailed report and presentation to inform stakeholders of key insights.
- Delivered results to other parts of the business to help with future strategy and holistic risk management regarding payments.

Software Engineer Intern *June 2022 - August 2022*

- Added unit tests for a part of the system that hadn't been touched in over 8 years in order to increase code integrity and reliability.
- Refined, built, and tested the backend that allowed scheduling title changes in the future which is used by 5% of current customers and will be the foundation of future work within the team.
- Learned Git, Ruby on Rails, React, Redis, testing, code review, and the deployment workflow over the course of the summer.

6 Overground **Asbury Park, NJ**
Software Engineer Intern *April 2021 - June 2021*

- Contributed to creating UX designs, database designs, and knex.js database migration scripts for a transit app.

Projects

Motor Control Lab - Intro to Embedded Systems **Fall 2023**
- Utilized FreeRTOS on an STM32 board to control a motor and run several other concurrent tasks.
- Designed and assembled a custom PCB to hold all the components needed.

Proxy Lab - Intro to Computer Systems **Spring 2023**
- Designed and implemented an HTTP 1.0 proxy in C that can handle concurrent connections and a built-in cache to increase performance.

Skills and Interests

Programming Languages: C, Python, Java, Javascript, Ruby, SQL, Verilog, Assembly

Tools: Git, React.js, Ruby on Rails, GDB, Figma, Linux, Pandas, Scikit-Learn, FreeRTOS