Nayeel Imtiaz

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EDUCATION

University of California, Davis — Davis, CA
B.S. Computer Science — *Graduation: Dec. 2024*
- Cumulative GPA: *3.6*
- Relevant Coursework: *Data Structures and Algorithms, Operating Systems, Machine Learning and Deep Learning, Computer Architecture, IOS Development*

EXPERIENCE

Software Engineer Intern — Jun. 2023 – Sep. 2023
Instructure — *Salt Lake City, UT*
- Ownership of major modifications to nightly ETL service used by several different teams in the company
- Involved extracting data from source PostgreSQL database and temporarily storing data in an AWS S3 bucket
- Transformed extracted data into newly supported formats and loaded data into target PostgreSQL database
- As a result, target database became the single source of truth, and efficiency of rollup calculations increased by approximately 70%, solving team's bottleneck problem
- Tools/Languages: *Docker, Ruby, Ruby on Rails, AWS S3, PostgreSQL, SQL, React, Jenkins, Rspec, Jest, Selenium, Gerrit*

Software Engineer Intern — Jun. 2022 – Sep. 2022
Foodware — *Berkeley, CA*
- Owned company's primary automated email service and used AWS services like Lambda, S3, and SES
- Made an invoice template and a script to generate invoices into PDFs using Fpdf2 and Jinja
- AWS Lambda handled retrieving invoices from S3 and using SES to send them to customers
- Tools/Languages: *AWS Lambda, Python, Pytest, Fpdf2, Jinja, AWS SES, AWS S3, Git*

Software Engineer Intern — Mar. 2022 – May 2022
Infinite Options — *San Jose, CA*
- Enhanced a client's scheduling and reminders app, focusing on user interface improvements and responsive design features
- Collaborated closely with client and designers to refine and upgrade application features, ensuring user satisfaction and design consistency
- Actively participated in an Agile development setting, contributing to sprints and engaging in daily stand-ups to streamline workflow and project management
- Tools/Languages: *React, Webpack, Redux, Axios, JavaScript, HTML, CSS, Bootstrap, Git, Figma*

PROJECTS

Naive Bayes Classifier | *Python, NumPy* — Sep. 2023
- Spam Detection software to filter spam messages based on machine learning classification algorithm
- Analyzes patterns in the frequency of each word in known spam emails
- Able to accurately predict whether an email is spam 95% of the time in a random set of emails

Shell Interpreter | *C* — Feb. 2023
- Developed a custom Unix shell interpreter with robust command parsing and execution capabilities
- Implemented output redirection, piping, and background processing features
- Added error-handling support to gracefully manage invalid commands

Huffman Coder | *C* — Aug. 2022
- Implemented the Huffman coding algorithm for lossless file compression
- Encoding program takes an input file and encodes it using a binary tree, efficiently compressing the data
- Decoding program decompresses encoded file and restores it to its original state

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, Ruby, HTML/CSS, Golang
Frameworks: React, Ruby on Rails, Node.js, FastAPI, Pytest, Jest, RSpec, Selenium
Developer Tools: Git, Gerrit, Docker, AWS, VS Code, PyCharm, IntelliJ, Jupyter Notebook
Libraries: NumPy, Matplotlib, Pandas, Scikit-learn, Tensorflow