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EDUCATION

Cornell University

Ithaca, NY

B.S. in Computer Science; GPA: 3.96

Expected Graduation May 2023

Experience

Meta Platforms, Inc. (Facebook Inc.)

May 2022 - Aug 2022

Sunnyvale, CA, USA

Software Engineer Intern

- o Developed and launched a full-stack web project that automates the generation process of Human Review Short-term Forecasts. Reduced error rates from manual generation by a significant amount.
- Designed and implemented the front-end UI using React/JavaScript and utilized features like table view, power search, etc.
- Built the back-end data model that manages the generation workflow of Human Review Forecasts. Constructed GraphQL API endpoints that interact with the data model (create/update/query).
- Utilized MySQL to query data from production database and do data validation checks for the system.
- Designed unit/integration tests that ensures the quality of the project.

Red Hat, Inc.

May 2021 - Aug 2021

Software Quality Engineering Intern

Remote

- o Worked in the OpenShift Cluster Manager (OCM) Service Development team as an intern and responsible for the automation testing for the OCM system and its User Interface.
- Developed and debugged the automation testing framework for OCM, the Cucushift (Cucumber), which is written in Ruby and the behavior driven part is written in Gherkin. Completed more than 10 automation tasks.
- Contributed and reviewed pull requests for the Cucushift Git repository. Triggered and deployed OCM weekly sanity pipeline testing through Jenkins.
- Executed API testing for the OCM platform. Get familiar with Red Hat's containerization technologies.

Projects

RISC-V Interpreter

C Developer

- o Designed and built an Assembly language interpreter program using C that parses in RISC-V instructions and tokenizes them into appropriate subsections to compute the final state of each instruction. Implemented a memory model to simulate the memory operations/caching happening in real hardware.
- Designed and implemented an auxiliary program using C that simulates the roles of caching in memory management, and integrates the caching module with the RISC-V interpreter program to demonstrate caching performance.

FileEncryption Manager Application

Java Backend Developer

- o Designed and Developed a desktop software platform to assist users to securely handle confidential documents (functionalities include file encryption/decryption and electronic signature generation).
- Using Java, implemented the backend server and data processing for the application. Built and tested reliable RESTful APIs that allows the frontend to interact with backend data.
- Implemented backend functionalities to transfer encrypted/decrypted files between logged-in users on the platform. Data communication enabled by Java Socket.

QuickStats website

Python Full Stack Developer

- Implemented the backend of QuickStats, an interactive webtool that allows users to easily upload their statistical data files (eg. csv files), run statistical analysis, and get report of the results through the webpage.
- Developed the backend code base in Python and the associated Python CGI scripts. Utilized MySQL database and wrote SQL queries to handle data for statistical analysis. Developed frontend using HTML and enhanced it using JavaScript frameworks.

SKILLS

• Languages: Java, Python, PHP, React/JavaScript, C/C++, Swift Technologies: Git, AWS, Kubernetes