Robert Sun

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EDUCATION

University of Virginia · Charlottesville, VA
Bachelor of Arts in Computer Science · *Aug. 2021 - Expected Dec. 2024*

EXPERIENCE

Software Engineer Intern - OpenShift AI Dashboard Team · May 2024 - August 2024
Red Hat · *New York, NY*
- Engineered bug fixes for multiple parts of the dashboard, including pipeline and workbench errors, authorization vulnerabilities (based on Kubernetes RBAC), CI test failures, and general UI bugs
- Added Cypress end-to-end tests, created test functionality for intercepting MLMD requests, designed unit tests, improved repository-wide type definitions and narrowing, and configured ESLint rules which improved overall code quality and test coverage

Software Engineer Intern - ConsoleDot Team · May 2023 – July 2023
Red Hat · *Remote*
- Constructed webpages, generated search indices, improved form rendering, increased viewport reliability, and made cleaner UIs in the Red Hat Hybrid Cloud Console website
- Developed validation scripts for Kafka requests and JSON files and crafted Cypress end-to-end unit tests for web pages. These efforts successfully identified bugs and bolstered backend and frontend reliability

Undergraduate Teaching Assistant · Aug. 2023 – Dec. 2023
University of Virginia School of Engineering · *Charlottesville, VA*
- Held office hours and graded various assignments for a software development class containing 481 students

PROJECTS

Flashcards Website | easyflashcards.org · April 2024 – Present
- Creating a flashcards website where users can collaborate and develop flashcards using rich-text editors
- Using React, TypeScript, Next.js, Prisma, Express.js, Docker, and JavaScript

Book Blog Website | robertsrandomreviews.com · April 2024 – Present
- Created a personal book review blog using HTML/CSS, JavaScript, Tailwind, and Flask
- Devised API endpoints for overseeing posts and comment sections, and merged the New York Times API

Mobile App Development | *Dart, Flutter, PostgreSQL, Firebase* · Dec. 2022 – Aug. 2023
- Built a trip planner mobile app where Users are able to log in using Google Sign-In services and share trip itineraries
- Integrated APIs to provide direction-by-direction navigation services. Built a ChatGPT API-powered trip planner

ML/AI | *Flask, Python, PyTorch* · March 2023 – April 2023
- Trained ResNet18 on the Garbage Classification and Drinking Water Classification dataset using PyTorch, achieving 84 percent accuracy based on testing images

Free Food Website | *Django, Python, HTML/CSS, JavaScript, Heroku* · Aug. 2023 – Dec. 2023
- Worked in a team of 3 to create a Django application centered around helping students locate free food

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, Dart, C, SQL (Postgres), HTML/CSS, R, Swift
Frameworks: React, Next.js, Express.js, Flask, Flutter, Django, PyTorch, JavaFX
Developer Tools: Git, Docker, Kubernetes, Hetzner Cloud, Linode, OpenShift, Firebase, VS Code
Relevent coursework: Advanced Software Development, Artificial Intelligence, Algorithms, Computer Systems and Organization, Internet Scale Applications, Mathematical Statistics, Intro. to Cybersecurity, Statistical Machine Learning