Robert Sun

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EDUCATION

University of Virginia   Charlottesville, VA
Bachelor of Arts in Computer Science, GPA: 3.9/4.0   *August 2021 - December 2024*

EXPERIENCE

Associate Software Engineer   December 2024 - Present
Red Hat   *Boston, MA*
- Contributed to the OpenShift AI Dashboard and upstream to Kubeflow by contributing code, engaging in UX discussions, patching bugs, leading epics, showing demos, and participating in code reviews
- Added new features such as RWX configurable persistent volume claims, clearer workbench updating processes, page components, terminology renaming, configuration alerts, and a UI wrapper around our AI-focused pipeline
- Increased code quality by refactoring MLMD calls, removing unnecessary hooks, overhauling 403 handling, improving permission testing methods, crafting unit and mock tests, and adding pass-through Kubernetes calls
- Helped with our initiative towards adopting a modular architecture, which empowers us to share code with the upstream, while also allowing us to add custom features through the use of extensions and plugins
- Was the primary onboarding buddy for new team members, and is currently mentoring an intern on the team

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, 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 responsiveness, 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   August 2023 – December 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 – December 2024
- 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 2022 – December 2024
- Created a personal book review blog using HTML/CSS, JavaScript, Tailwind, and Flask
- Devised API endpoints for overseeing posts and comment sections, and used the New York Times API

Mobile App Development | *Dart, Flutter, PostgreSQL, Firebase*   December 2022 – August 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

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, Dart, C, SQL, 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, Visual Studio Code, Cursor
Relevent coursework: Advanced Software Development, Artificial Intelligence, Algorithms, Computer Systems and Organization, Internet Scale Applications, Mathematical Statistics, Intro. to Cybersecurity, Statistical Machine Learning