

Alan Jiang

adj2424@gmail.com | 13585 Cobra Drive, Herdon, VA | (703)786-0041

Experience

Year Round Software Engineer Intern

May 2022 – Present

SAS — Cary, North Carolina

- Assisted in migration of new automation testing environments for legacy SAS products using Playwright and PyTest framework with Python
- Redesigned automation summary test report for improved readability and user testing experience
- Containerized automated testing with docker containers by creating shell scripts and configurations, allowing a better streamlined CI/CD process
- Added image benchmarking during automated testing finalization through SAS Gozer API

Software Engineer Co-op

January 2022 – May 2022

Peraton — Blacksburg, Virginia

- Supported the Space Development Agency program in satellite mission management microservices using backend tech stack such as Spring Boot, Python Scripting, PostgreSQL, and OpenAPI
- Created dynamic queries by performing Spring Data JPA Specifications for better high-level abstraction
- Coded RESTful API endpoints for microservice kickoff using path and query parameters
- Followed agile development by participating in daily scrum meetings and code reviews to ensure code quality and maintainability

Software Engineer Intern

May 2021 – August 2021

SAS — Cary, North Carolina

- Wrote automated tests for SAS Visual Analytics via Katalon using Groovy as its primary language
- Developed and launched Pinakes, a web app database servicing various types of data sets for SAS testers
- Utilized Python and Flask framework to host data with GitLab API during customer service callings
- Designed interactive user interface with HTML, CSS, and JavaScript

Skills

Languages: Java, C, C++, Python, JavaScript, HTML, CSS, Kotlin, \LaTeX

Technologies: VSCode, Jet Brains, Flask, PyTest, Spring Boot, Three.js, TypeScript, Firebase, Git, Jira

Projects

Camera Map Service Application

Created a mobile app to allow users to create a location item through pictures, notes, and device location details using Model-View-ViewModel architecture. Initialized with Firebase's database to read and write data through the cloud. Responsible for displaying each location item on Google Maps with metadata

Personal Server

Coded a multithreaded web server written in C able to handle HTTP transactions, HTML fallback, user login, file storing, and file transfers. User login is implemented with a JSON Web Token Authentication in client-side validations leading to a more secure and robust server

Education

Virginia Tech

Blacksburg, Virginia

Bachelor of Science in Computer Science

2019 – 2023

Enrolled as a junior pursuing to obtain a Mathematics Minor

GPA 3.3

Coursework

Data Structures and Algorithms

GUI Programming and Graphics

Programming in Python

Engineering Problem Solving with C++

Mobile Software Development

Computer Systems

Other

Dean's List recipient

Marching Virginians

Secret Security Clearance