Jack Quinn

Email | Linkedin | Github

OBJECTIVE

Passionate software engineering student with deep knowledge in full stack development. Eager to apply my skills to innovative and impactful projects around the Washington D.C. area.

EDUCATION

Arizona State University   Aug. 2020 - May 2025
Bachelor of Science in Software Engineering   *Tempe, AZ*
- Relevant coursework includes: Operating Systems/System Programming, Software Enterprise Lifecycle, Design and Analysis of Data Structures and Algorithms

EXPERIENCE

Software Developer Intern   Jun. 2024 – Aug. 2024
NT Concepts   *Tysons, VA*
- Supported an internal research and development program focused on AI security
- Developed the API for the program using Python, FastAPI, Pytest and SQLAlchemy with PostgreSQL
- Researched and designed a system for hosting and interacting with our AI models using KServe and Kubernetes

Founder and Software Engineer   Nov. 2021 – May 2024
Quinn Computing LLC   *Leesburg, VA*
- Software development freelancing under my own company, Quinn Computing
- Worked with clients to migrate hosting to cloud providers such as AWS, GCP and Azure
- Created a full stack cart customizer application using React.js, Express.js, Mongodb and Three.js with React Three Fiber

PROJECTS

QuinnOS | *Rust*   Oct. 2023
- Created a simple OS kernel with Rust for the x86_64 architecture
- Added CLI VGA text buffer operation
- Included exceptions, faults, and interrupts as well as testing of these functionalities

Quinn Compiler | *C++*   Sep. 2023 – Oct. 2023
- Created a custom compiler and programming language
- Includes a parser, tokenizer, and code generation to assembly
- Supports basic variable declaration, scopes, if statements, and simple math
- Implements an arena allocator for storing nodes

AI Helper | *Next.js, TailwindCSS, Prisma, Stripe, Clerk*   Aug. 2023
- Created a full stack AI helper application built with Next.js
- Uses OpenAI API for AI integration
- User authentication built with Clerk
- Database implementation built with Prisma ORM
- CSS styling implemented with TailwindCSS
- Uses Stripe for user billing

TECHNICAL SKILLS

Languages: Java, Rust, Python, C/C++, C#, JavaScript/Typescript, HTML/CSS, SQL
Frameworks: React, Next.js, FastAPI, Node.js, TailwindCSS, .NET, Express.js, Junit, Jest, PyTest
Developer Tools: Git, Docker, AWS, Vercel, Heroku