

Education

Virginia Tech, Blacksburg VA | B.S. in Computer Science (College of Engineering), Intended Minor in Cybersecurity (Electrical Engineering) | Expected Graduation Spring 2027 | 3.82 GPA

Work Experience

Fairfax Water | **Operational Technologies Network Aide Intern** | May 2024 - Jul 2024 & May 2025 - Aug 2025

- Built a Power BI dashboard to assist with efficient mass data selection for state reports
- Developed a Visual Basic Excel Macro to automate and streamline parsing of HST data files
- Configured Active Directory user accounts and workstation policies for the Operational Technology (OT) network
- Installed and commissioned PID controllers for an ozone destructuring control panel
- Configured an RS-485 communication network integrating Chemtrac and Precision Digital devices for ozone residual monitoring

Luyx LLC | **Founder** | Dec 2021 - Present

- Built a high-performance web application using SvelteKit, implemented a custom OAuth2 flow, and managed SEO initiatives to improve visitor traffic
- Constructed efficient CI/CD pipelines that Dockerize and deploy source code from development to isolated staging and production environments
- Created a custom Hot Module Replacement system to deploy specific updates with zero downtime
- Designed ground-up RESTful APIs supporting secured external integrations and business logic access
- Created projects for organizations: D & Z Motorsports, Vinny Anthony, and AEPi at Virginia Tech
- Encourage technical growth, healthy teamwork, cross-training, and modernized development

Projects

CountBot | Lead Product Engineer | Jul 2021 - Sep 2025 (Maintenance)

- Updated and maintained a popular Discord Application in over 15,000 Discord servers
- Designed entire codebase rewrites to improve scalability by following Hexagonal Architecture
- Created premium models that led the project and parent company (Luyx LLC) to profit
- Added support for containerized deployments across the backend, frontend, and Discord app services
- Strategically managed an M0 MongoDB cluster with over 250,000 unique users and related data

TeamCrunch | Lead Product Engineer | Jul 2025 - Today (Development)

- Planned out and invested in reliable infrastructure including hosting provider and relational database
- Developed a secure, RESTful backend API to support basic functionality of a social media app
- Added a robust gateway using Fastify and WebSockets to support instant messaging and notifications
- Developing a multi-platform frontend using React Native and Expo framework

Technical Skills

Languages: TypeScript, HTML, CSS, SQL, Java, C, Bash, Visual Basic, Python

Frameworks & Libraries: SvelteKit, Next.js, React, Express, Fastify, Vite, Expo

Tools & Development Practices: Git, Semantic Versioning, CI/CD, Docker, Agile methodology, RESTful API, CORS, WebSockets, Hexagonal Architecture, SEO, Web Standards, Kubernetes

Data Management: MongoDB, PostgreSQL, Drizzle-ORM

Platforms & Services: Cloudflare, GitHub, Linux, Stripe