Jesse C Peterson

Seattle, Washington
www.j-peterson.net

Summary

Motivated Full-Stack Developer with a strong foundation in **JavaScript, TypeScript, Java, plus additional experience in C and C++.** Experienced in **building scalable applications, deploying cloud infrastructure (AWS), and API development**. I am passionate about **Site Reliability Engineering (SRE) and Full-Stack Development**, with a focus on optimizing system performance, security, and flexibility.

Skills

Programming Languages: JavaScript, TypeScript, Java, C, C++, Python
Frontend: Angular, Svelte Kit, HTML, CSS
Backend: Node.js, Express.js, MongoDB, REST APIs, RabbitMQ, MinIO
Cloud & DevOps: AWS (S3, API Gateway, Lambda, IAM, Route53, CloudFront), Docker, Docker Compose, Cloudflare, Ngrok
Security & Authentication: AWS IAM, STS
Tools & Version Control: Git, GitHub, VS Code, Android Studio, Postman
System Integration: Discord, Google, Shopify, Zoom
Testing Tools: Playwright, JUnit
Operating Systems: Linux, Windows, Mac

Projects

Portfolio **Single-Page-Application**(www.j-peterson.net)
- **Tech Stack:** Angular, AWS S3, API Gateway, IAM, MongoDB
- Developed a portfolio SPA hosted on **AWS S3** with **API Gateway**
- Integrated **IAM Signature Authentication** for secure API access
- Designed **serverless architecture** via AWS Lambda + API Gateway
- Secured connectivity between **MongoDB Atlas** to **AWS** through **AWS VPC**

Inventory Management Android Application(github.com)
- **Tech Stack:** Java, XML, SQLite
- Built an **Android** application for tracking inventory
- Used **SQLite** for local data persistence (user preferences, credentials and inventory).

- Built a user-friendly interface following Android's principles in design

Trucking Database Project (github.com)
- **Tech Stack:** JavaScript, Node.js, MySQL
- Built a CLI application for **CRUD** operations from a **MySQL** database
- Integrated external API to enrich data inserted into the database
- Utilized NPM packages, Commander.js and inquirer.js for an improved CLI experience
- Applied regex and other methods for mitigating SQL injection.

Work Experience

EQuick – Software Engineer (September 2025 – Present)

- **Tech Stack:** Node.js, Typescript, Playwright, Vite, NPM, MongoDB, React/Preact
- Updating dependencies to **mitigate vulnerabilities** and improve security.
- Converting the build tool from **Parcel** to **Vite,** enabling modern tooling and streamlined configuration.
- Conducting regression testing to ensure application stability post-migration.

Experiences App – Full Stack Developer (July 2025 – Present)

- **Tech Stack:** Node.js, Typescript, Vite, SvelteKit, Shopify GraphQL API, MinIO/S3, RabbitMQ, MongoDB
- Migrated legacy code to new framework
- Collaborated with senior developers to enforce clean, secure coding practices and apply constructive feedback effectively.
- Designed and executed **MongoDB** migration strategy for user data across application versions.
- Implemented image upload system integration with **MinIO/S3,** synchronizing user updated with S**hopify** stores.

Pedestrian Tactics – Full Stack Intern (May 2025 – Present)
- **Tech Stack:** SvelteKit, Node.js, TypeScript, WebAssembly, C, Docker, MongoDB, MinIO/S3
- Collaborated with the founder to lead the development of the project
- Built and maintained a full-stack web application using **SvelteKit**
- Orchestrated infrastructure using **Docker** and **Docker Compose**, containerizing key services including **MongoDB** for data storage and **MinIO/S3** for scalable object storage
- Engineering a high-performance **image processing** pipeline by compiling **C** libraries to **Web Assembly**, enabling in-browser conversion of image formats at native-like speed.

- Developed C library for Exif metadata extraction, integration with Web Assembly to return results as JSON objects.
- Gained hands-on experience with low-level memory management, buffer handling, and efficient data encoding in a Web Assembly context.

Other Work Experience:

Garage Force – Concrete Coating Installer (July 2024 – July 2025)

- Adapted to **fast-paced** environments requiring precision **teamwork**.

- **Troubleshoot** technical challenges on-site, ensuring smooth operations

Starbucks – Barista (Sep 2023 – June 2024)
- Enhanced **teamwork** and customer engagement

Costco – Food Service & Stocking Member (Aug 2022 – Aug 2023)
- Managed high-volume tasks efficiently.

Education

Southern New Hampshire University (August 2023 – December 2024)
Bachelors of Science in Computer Science (GPA: **3.955** - Summa Cum Laude)

Lake Washington Technical Academy (September 2021 – March 2023)
Associates of Science in Computer Science (GPA: **3.8**)