

Spencer Lepine

Full Stack Software Engineer

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TECHNICAL SKILLS

Front End | JavaScript (ES5 and ES6), React, HTML5, CSS3, MaterialUI, Redux, Axios

Back End | Node.js, Express, Firebase, PostgreSQL, MongoDB, RESTful API Development

Testing/Deployment | Jest, Testing Library, Heroku, AWS: EC2 / S3, Docker, NGINX, GitHub Actions

Developer Tools | Vim, Git, npm, Webpack, Babel, Agile Methodology, TDD

SOFTWARE ENGINEERING APPLICATIONS

Full Stack Software Engineer | Woofer – github.com/spencerlepine/woofer

Pet-themed dating app built with MERN stack; Mobile responsive; Complete with CI/CD pipeline.

- Designed a **MongoDB** Atlas NoSQL database managing user profile records, zip code groups, and yes/no match records
- Built real-time chat feature with **Socket.io** with persistent message history stored in the database.
- Integrated **Firebase** Authentication to manage user accounts, and verify tokens for the backend API requests.
- Integrated a **CI/CD** pipeline with Jest, **GitHub Actions**, Docker, and AWS EC2.
- Developed with a ticket system and feature branches, while following schemas and UI wireframes.
- Practiced test-driven development with **Jest**, React Testing Library, Supertest, and Puppeteer

Back End Engineer | Atelier-Products API – github.com/sdc-bareminimum/project-catwalk-related-service

An API serving retail product data built to handle demands of production level traffic.

- Built a multi-layer backend system with initial capacity of 100 rps then optimized to handle 5000 rps, maintaining 70 ms latency with a <1% error rate
- Increased fault tolerance and system availability for users by horizontally scaling proxy and service layers with **NGINX** load balancers using a dynamic least connection algorithm.
- Decreased stress testing cycle length by identifying and revising system bottlenecks using **Loader.io** and **K6**
- Simplified deployment process with **Docker** images to create **Node.js** server instances on **AWS EC2**
- Implemented continuous integration with **GitHub Actions** running unit and integration tests with **Jest**.

EXPERIENCE

Information Technology Specialist (25B)

United States Army Reserve Feb 2021 - Present

- Secret Clearance (Pending)
- Completed 10 week Basic Combat Training, followed by 20 week Advanced Individual Training.
- Installing, operating and maintaining computer systems (i.e. networks, hardware and software)
- Planning, designing, and testing computer systems

Personal Shopper

Instacart March - July 2021

- Performing timely and personalized no-contact grocery delivery
- Managing online batch orders through the mobile app
- Navigating local grocery stores and delivery routes

EDUCATION

Hack Reactor Seattle, WA

Advanced Software Engineering Immersive Program

2021

13-week software engineering immersive program with over 1000+ hours of coding. Full-Stack development with JavaScript, React, Express, PostgreSQL, MongoDB, and MySQL in an AGILE environment.