

# Spencer Lepine

## Full Stack Software Engineer

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## TECHNICAL SKILLS

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**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

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**Full Stack Software Engineer** | Woofer – [github.com/spencerlepine/woofer](https://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 profiles, 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](https://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

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**Information Technology Specialist (25B)**

United States Army Reserve Nov 2021 - Present

- Secret Clearance (Pending)
- Completed 10 week Basic Combat Training and 20 week Advanced Individual Training with on-the-job instruction
- Installing, operating and maintaining computer systems (i.e. networks, hardware and software)
- Providing customer and network administration services
- Planning, designing, and testing computer systems

## EDUCATION

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**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.