

Josh Lakenan Software Engineer

📍 Chicago, IL ✉ joshlakenan@gmail.com 🔗 joshlakenan.com 🌐 /in/joshlakenan 🔄 joshlakenan

I'm a software engineer with experience building full stack web applications and a passion for solving challenging problems using technology.

EXPERIENCE

Software Engineer & Co-Creator, Pinniped - pinniped-baas.dev 🔗 Jan 2024 – present

An open source Backend as a Service (BaaS) that streamlines application development for Node.js developers.

- Created an auto-generating REST API layer to support intuitive interactions with a dynamic set of database tables. (REST, Express, JavaScript, Node.js)
- Implemented a dynamic schema management system to enable resource specific application logic with an auto-generated API Layer. (SQL, SQLite, OOP)
- Built custom middleware, leveraging the dynamic schema management system, to implement endpoint-specific access control and data validation.
- Architected a local extensibility framework enabling developers to extend the functionality of the backend, beyond standard REST operations, through an event-driven architecture. (Node, Event Driven Architecture)
- Crafted an admin user interface that provides user-friendly schema management, database backups, and HTTP Request monitoring. (JavaScript, React, HTML, CSS)
- Designed an SDK to facilitate intuitive frontend interactions with the Pinniped backend API. (JavaScript, npm)
- Developed a deployment pipeline CLI tool to create, manage, and deploy applications to AWS EC2. (Node.js, AWS EC2, AWS SDK V3, SSH, SFTP, JSON)
- Secured deployed applications by automatically fetching and monitoring SSL certificates, and utilizing industry-standard security middleware. (HTTPS, SSL, CORS, XSS, Let's Encrypt, Helmet)
- Collaborated with a remote team of 4 engineers using Agile-style scrums and daily standups to move the project through each milestone. (Agile, SCRUM, Git, Github)
- Authored a technical case study discussing project architecture, trade offs, and implementation.

Software Engineer, Self Employed Nov 2022 – Dec 2023

Developed freelance and open-source applications including:

- Presto-Requesto - Tool for collecting and debugging webhooks (DO Droplet, Nginx, MongoDB, Express, React, SSE)
- Travelization COGS - Tool for calculating cost of goods sold for an Amazon FBA business. (Node, JSON, OOP)

Software Developer, General Motors Jun 2015 – Mar 2016

- Designed and executed software test plans for the Computer Aided Engineering (CAE) organization. (Java, Linux)
- Coordinated global user acceptance testing of High Performance Compute (HPC) infrastructure upgrades.

Operations Leadership, SkyZone / Travelization Mar 2016 – Nov 2022

- Led large, diverse teams to meet and exceed revenue and customer retention goals.
- Created operational systems and training materials used to ensure operational security and efficiency.

SKILLS

Back End

Node.JS, Express, REST APIs, Go, SQL, SQLite, PostgreSQL, MongoDB

Cloud

AWS EC2, Digital Ocean Droplet, Serverless computing

Front End

JavaScript, Typescript, React, Handlebars, HTML/CSS, jQuery

Other

Git, Github, Linux, Bash, HTTP, Jest, Nginx, Object Oriented Programming (OOP) , Server Sent Events (SSE)

EDUCATION

Bachelor of Science (BS), Information Systems, Brigham Young University

2012 – 2015

Developed projects using Python (Django), C# (.NET) - 3.75 GPA