

# Josh Lakenan Software Engineer

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

## PROFILE

I'm a software engineer who takes pride in solving challenging problems with positivity, energy, and consistency. Recently I built Pinniped [🔗](#), an open source Backend as a Service that streamlines application development by creating, configuring, and deploying customizable backends. I've previously worked as a software developer at General Motors and in various operations leadership roles. No matter where I'm at I'm always learning, and looking for ways to lift up the team around me.

## EXPERIENCE

**Software Engineer & Co-Creator**, Pinniped - pinniped-baas.dev [🔗](#) Jan 2024 – present

- 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, supporting the auto-generated API Layer. (SQL, SQLite, OOP)
- 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)
- Evaluated system architecture tradeoffs and developed a system design to meet the requirements of a unique use case. Case study - pinniped-baas.dev/case-study [🔗](#) (System Design)

**Software Engineer**, Self Employed Nov 2022 – Dec 2023

Developed freelance and open-source applications including:

- E-Com COGS - Tool for calculating cost of goods sold for an E-Commerce Business. (Node, JSON, OOP)
- Presto-Requesto - Tool for collecting and debugging webhooks (DO Droplet, Nginx, MongoDB, Express, React, SSE)

**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.

**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.

## SKILLS

### Back End

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

### Front End

JavaScript (ES6+), Typescript, React, HTML/CSS, jQuery, handlebars

### Cloud

AWS EC2, Digital Ocean Droplet, Serverless computing

### 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