Josh Lakenan Software Engineer

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PROFILE

I'm a software engineer who takes pride in solving challenging problems with positivity, creativity, 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