Josh Lakenan Software Engineer

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PROFILE

I'm an experienced software engineer who takes pride in solving challenging problems with positivity, creativity, and consistency.
I leverage my combined engineering and operations leadership background, blending deep business and product knowledge with technical mastery to deliver exceptional results. When I'm not building software, you'll find me playing pickleball, juggling, or diving into a new hobby.

TECHNICAL EXPERIENCE

Software Engineer, Pinniped - pinniped-baas.dev 🔗   2024 – present
Built an open-source BaaS solution that creates and deploys customizable backends for engineers seeking portability and a familiar way to build custom application logic with native Node.js, rather than serverless functions.
- Created an auto-generating **REST API** layer with **Express.js** to support CRUD operations on a dynamic set of user generated database tables.
- Implemented a **SQLite** schema management system with table metadata storage, custom models, and migrations to ensure schema consistency between development and production environments.
- Leveraged the **Node Event Emitter** to create an event driven extensibility framework for customizing application logic.
- Used **AWS SDK v3** and **Node.js** to build a deployment pipeline CLI that creates, manages, and deploys Pinniped apps to **AWS EC2**.
- Automated the fetching and renewal of SSL certificates with **Let's Encrypt** to ensure consistent HTTPS connections.
- Crafted a **React** admin UI in to provide user-friendly table schema management, database backups, and request monitoring.
- Designed, built, and deployed a **JavaScript** SDK to facilitate intuitive frontend interactions with the Pinniped backend REST API.

Software Engineer | Ecommerce Business Owner, Travelization 🔗   2020 – 2023
Developed, and sold an Ecommerce business while building software engineering skills to support a career transition back into tech.
- Used **Node.js** and to build an internal tool for automating cost of goods sold calculations, streamlining accounting processes.
- Migrated the Travelization.org site from Wordpress to Shopify, adding a new sales channel and increasing sales by 2%.
- Configured multi sales channel fulfillment software to reduce off-Amazon fulfillment costs by 40%.
- Created inventory forecasting models and operational best practices to reduce costs and increase efficiency.

Software Developer, General Motors   2015 – 2016
Worked as a member of GM's Computer Aided Engineering (CAE) organization on the High Performance Compute (HPC) team.
- Designed and executed software test plans supporting the processing needs of 20+ internal engineering models used by vehicle design engineers.
- Coordinated global user acceptance testing of High Performance Compute infrastructure upgrades.

OTHER EXPERIENCE

Senior District Manager, Skyzone   2016 – 2020
Started as a general manager and was promoted through various leadership roles to my final position as Senior District Manager, responsible for the success of 13 recreational facilities and an organization of 450+ team members across 4 states.
- Launched 3 multi-million dollar facilities, hired and trained 15 general managers, 1 district manager, and over 150 team members.
- Led large, diverse teams to meet and exceed revenue and customer retention goals, delivering 14M+ in yearly revenue.
- Created operational systems and training materials used to ensure operational security and efficiency across the organization.

SKILLS

Back End	Front End	Cloud	Other
Node.js, Python, Express.js, REST APIs, SQL, SQLite, PostgreSQL, MongoDB	JavaScript, Typescript, React, HTML/CSS, jQuery, handlebars	AWS: EC2, S3, Lambda, API Gateway, CloudFront, CDK, SDK v3	Git, GitHub, Linux, Jest, Nginx, Object Oriented Programming (OOP)

EDUCATION

Brigham Young University, Bachelor of Science (BS), Information Systems   2012 – 2015