

Alan Cho

Software Engineer

✉ alancho397@gmail.com 📍 Dallas, TX 🌐 alan-b-cho 🗣 alan-cho 🔗 alan-cho.com

👤 PROFILE

Detailed-oriented software engineer with a passion for learning and growth. Possesses strong problem-solving skills and is adept at dissecting complex issues and implementing effective solutions. Collaborative team player with excellent communication abilities.

🔧 TECHNICAL EXPERIENCE

Software Engineer & Co-Creator, Pinniped [↗](#)

2024

Pinniped is an open-source backend-as-a-service optimized for Node.js developers.

- Created a schema management system with a metadata storage mechanism, migrations, and custom table models (SQLite, Knex.js).
- Automated the creation of a dynamic REST API to speed development time by 50% (Express, Node.js).
- Built custom middleware to leverage the schema management system within the HTTP request-response cycle for access control and data validation (Express).
- Architected a local extensibility framework to extend the functionality of the backend beyond standard REST operations through an event-driven architecture (Node.js).
- Crafted an administrative user interface for creating schema, managing users, performing database backups, and monitoring HTTP requests (React, Vite).
- Designed an SDK to facilitate frontend interactions with Pinniped's REST API (npm).
- Developed a deployment pipeline CLI tool to create, manage, and deploy applications to AWS EC2 to quicken time to market by 90% (Node.js, AWS).
- Secured deployed applications by automatically fetching and monitoring SSL certificates, and utilizing industry-standard security middleware to prevent 60% of basic cyberattacks (HTTPS, SSL).
- Established team workflows and best practices including issue tracking, unit testing, and code modularity to accelerate development by 40% (Git, Github, Jest).
- Authored technical case study discussing project implementation, tradeoffs, limitations, and architecture.

Software Engineer, Self-Employed

2022 – 2024

Developed open-source applications including:

- *Presto Requesto* - Application for creating and monitoring webhooks (DO Droplet, Nginx, MongoDB, Node.js, Express, React, Vite).
- *Bowling League Manager* - Full stack application for managing rosters, scores, and player info (PostgreSQL, Node.js, Express, Pug, Handlebars).

🧠 SKILLS

Languages

JavaScript, Golang, SQL, HTML/CSS

Databases

PostgreSQL, MongoDB, SQLite

Libraries & Frameworks

Node.js, Express, React, Vite, Jest, Pino, Morgan, Pug, Handlebars, Knex.js

Cloud & Tools

AWS, Digital Ocean, Docker, Git/GitHub, Nginx

🎓 EDUCATION

University of Texas at Dallas, B.S. Neuroscience

2019 – 2023