Miles Abbason *Software Engineer*

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Software engineer with experience developing resilient cloud applications. Practices systematic development (research, plan, implement, validate) with AI-augmented tooling. Built Seymour, an open-source AWS-deployed active monitoring solution. Previously founded and scaled businesses, including a 14-state franchise operation.

EXPERIENCE

Software Engineer, *Botkeeper* 12/2022 – Present | Remote

- **Optimized critical endpoints achieving marked performance gains** through architectural redesign and data model optimization in Node.js and MongoDB
- **Saved company $10,000+ monthly** by creating task dependency system in Node.js that eliminated use of external vendor
- **Architected and implemented MongoDB infrastructure improvements:** updated change stream denormalization service utilizing oplog sync for real-time data consistency and led technical planning/execution of two major version upgrades
- **Designed and implemented user access control features** including user deactivation/reactivation with automated resource reassignment and new entity-level permissions for super-user access
- **Developed systematic AI-augmented development workflow** combining Claude Code agent orchestration with structured planning protocols for complex feature development and production code changes
- **Re-architected legacy endpoints** while extending capabilities, reducing limitations and expanding new features in Node.js
- **Supported legacy functionality** including SSO capabilities and systems used in core financial processes in Argo and AWS
- **Contributed to team growth** through technical interviewing, onboarding new engineers, and improving dev experience

Co-Creator, Software Engineer, *Seymour* 04/2022 – 12/2022 | Remote

Seymour is an open-source globally distributed active monitoring solution deployed to AWS for synthetic API testing.

- Architected globally distributed API monitoring system using AWS Lambda, EventBridge, SNS/SQS, and RDS for parallel synthetic testing with assertion-based validation
- Engineered the full stack application using Node.js, PostgreSQL, React, Tailwind CSS, and AWS cloud computing services
- Implemented a notification system that triggers messages via email, Slack, or Discord in the event of a failed test
- Built full system multi-region automated deployment of Seymour Amazon resources by utilizing AWS Cloud Development Kit (CDK) to deploy Amazon CloudFormation
- Authored comprehensive technical case study, readable at: *seymour-active-monitoring.github.io/case-study*

Full Stack Web Developer, *Self Employed* 02/2021 – 03/2022

Developed open-source software with technologies such as Node.js, Express, PostgreSQL, Docker, JavaScript, React, MongoDB, HTML, and CSS

- Trelloha: Trello-inspired Kanban board for project management built with Node.js, Express, React, Redux, and MongoDB
- Snaggl: RequestBin-like tool for webhooks. Built with Node.js, RESTful Express API, React, PostgreSQL

Trading Systems Developer, *Crucis Capital, Self Employed* 06/2018 – 03/2022

- Created long/short hybrid swing trading program in C# for the NinjaTrader ecosystem
- Authored 20+ financial market indicators and short-term automated trading strategies

Co-Founder, *Pelican's SnoBalls* 01/2011 – 05/2018

- Scaled franchise operation from 85 to 176 locations across 7 new states while establishing business infrastructure, processes, and controls and training 100+ employees/franchisees

SKILLS

Languages and Frameworks

JavaScript, TypeScript, Node.js, Koa, React, Express, Jest, Material UI, Redux, Python, C#, SQL

Cloud

AWS: Lambda, SQS, SNS, EventBridge, IAM, RDS, ElasticBeanstalk, CDK, DigitalOcean (Droplets), Heroku

Other Technologies

MongoDB, PostgreSQL, ElasticAPM, RabbitMQ, Nginx, Git, REST APIs, Docker, Sentry, Webhooks, Claude Code, systematic prompt engineering

EDUCATION

Software Engineering, *Launch School (Capstone)* 2021 – 2022

BA Graphic Design, *Cum Laude, California State University East Bay*