

# Miles Abbason *Software Engineer*

 miles.abbason@gmail.com  mabbason.com  miles-abbason  mabbason

Software engineer with experience developing resilient cloud applications. Built Seymour, an open-source AWS-deployed active monitoring solution for API testing. 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
  - **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
  - Developed 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 implement Amazon CloudFormation
  - Authored comprehensive technical case study, readable at: [seymour-active-monitoring.github.io/case-study](https://seymour-active-monitoring.github.io/case-study) 
- Full Stack Web Developer, Self Employed** 02/2021 – 03/2022
- Developed open-source software w/ 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 w/ 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, Express, Jest, Material UI, React, Redux, C#, SQL

### Cloud

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

### Other Technologies

MongoDB, PostgreSQL, ElasticAPM, Nginx, Git, REST APIs, Docker, Sentry, Adobe Suite, Linux, Webhooks

## EDUCATION

---

**Software Engineering**, *Launch School (Capstone)* ↗

2021 – 2022

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

2007 – 2009