# Shawn Au

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## EXPERIENCE

### WATCH HABITAT
SOFTWARE DEVELOPER
Aug 2019 – Nov 2019 | Toronto, ON

*Tools: Typescript, Javascript, PostgreSQL, Gatsby, Prisma, Apollo GraphQL, AWS, Netlify, FusionAuth, Git*

- Watch Habitat was a streaming service with an ecommerce platform
- Built and deployed a serverless backend with a GraphQL API
- Built full functionality mockup for entire site
- Set up primary sign-in mechanism for entire website
- Configured and deployed the database on AWS and set up database access and schema migration

### BLOCKCHAIN MARKETS
SOFTWARE DEVELOPER
Dec 2017 – Aug 2019 | Toronto, ON

*Tools: Java, Javascript, PostgreSQL, Solace, Spring, Liquibase, Hibernate, Protobuf, Google Cloud, Kubernetes, Cloud Pub/Sub, Angular, STOMP, Maven, Docker, Git, Jenkins*

- Built software with a microservices architecture running on Google Kubernetes Engine with Solace messaging
- Implemented failover mechanism in all microservices in the case of system failure
- Investigated best security practices and implemented authentication and authorization for the entire application
- Created and maintained REST API endpoints that handle hundreds of request per second
- Responsible for most database-related tasks such as structural changes, performance improvements, and migration scripts
- Set up, configured, and deployed microservices to Google Cloud
- Created market states to mimic stock exchanges. This includes rejecting new orders during a closed state, allowing orders but no matches during a preopen state, and matching existing orders when transitioning to an open state using a maximal matching algorithm

### ACHIEVERS
INTERN SOFTWARE DEVELOPER
Sep 2016 – Dec 2016 | Toronto, ON

*Tools: PHP, Javascript, MySQL, Backbone.js, Handlebars.js, jQuery, React, Docker, Git, Jenkins*

## EDUCATION

### UNIVERSITY OF WATERLOO
HONOURS BACHELOR OF COMPUTER SCIENCE
Aug 2017 | Waterloo, ON

## SKILLS

### PROGRAMMING
Proficient: Java
Familiar: C++ • CSS • JavaScript • LaTeX • MySQL • PHP • Python • TypeScript
Exposure to: C • Clojure • Matlab • Racket • Scala