Website
michaelconnor.ca

EMail
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Github
michaelconnor468

Programming
Java
C/C++
JavaScript
TypeScript
Python
Haskell
Bash

Tech
Linux
Git
SQL
MongoDB
NodeJS
React

Michael J. Connor

Software Engineer

Work Experience

NexJ Health — **Software Engineer** — March 2021 - Now
- Developed RESTful and RPC based APIs in an Agile environment
- Implemented general authentication service with two factor authentication
- Designed batching for services reducing network load and service latency

Nanopay — **Software Engineering Intern** — May 2019 - December 2019
- Developed a new security authorization framework
- Designed and implemented database performance monitoring API
- Developed declarative API for use in creating micro-services, reducing related bugs in codebase by over 80%

Open Source Contributions

FOAM Framework — foam-framework.github.io/foam
- Improved parser to make scripting language more developer friendly

Personal Projects

Java — **Open World Game** — github.com/michaelconnor468/Mystic
- Scalable multi-threading capable of utilizing high-core processors
- Completely modifiable and dynamically loaded infinite open world
- Regression unit testing using the JUnit library

Typescript — **Real-time Messaging Web Application** — chatter.michaelconnor.ca
- Uses RESTful API and websockets, with PostgreSQL storage and React UI
- Features secure authentication with salted hashing of passwords
- Deployed on AWS instance with a load balancer to provide SSL certificate

Java — **JSON Parsing Library for Java** — github.com/michaelconnor468/JSONParse
- Library used to write and read java objects into a modified JSON format

Java — **Krisp Language and Compiler** — github.com/michaelconnor468/KrispCompiler
- Front end compiler that generates intermediate machine code similar to x86
- Krisp language supports basic constructs such as variables and loops

Education

2021 - 2023 — **Master's in Computer Science**
Georgia Institute of Technology

2017 - 2021 — **Bachelor's in Computer Science and Mathematics**
University of Toronto