

Simon Chau

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EDUCATION

University of Toronto 2019 – Present

Honours Bachelor of Science — Computer Science Specialist

- Cumulative GPA: 3.74 / 4.0 (Dean's List)
- Courses: Software Engineering, Data Structures & Algorithms, Software Design

WORK EXPERIENCE

IBM Winter 2022 (4 months)

Incoming Backend Developer Intern

codepxl June 2021 – Present

Junior Backend Developer Intern

- Implemented additional functionality and features to web applications used by **thousands of children & families**
- Engineered the backend for a set of mobile applications consisting of **APIs with CRUD and search capabilities**
- Integrated the codebase onto a server, using cPanel and Cloudflare, in order to **receive feedback from clients**
- Based on client requirements, considered the management of data by **creating database designs**

PROJECTS

E-Learning Platform — MERN Stack | MongoDB • Express.js • React • Node.js May 2021 – Aug 2021

<https://africonnect.netlify.app>

- Diligently worked in a team of seven to create a full stack web application geared towards African entrepreneurs
- Utilized Git for version control and Jira for work management to regulate and manage the implementation of features such as real-time messaging, videos, and discussion forums

Zoomer — Java (Maven) • Neo4j • MongoDB • PostgreSQL • Docker Aug 2021

- Implemented the back-end for a ride-sharing web application with a microservice architecture
- Programmed an API Gateway to communicate with all three microservices (user, location, & trip information)
- Created CI/CD test cases on GitHub Actions consisting of requests that go to the API Gateway

Tic-tac-toe AI — Python May 2021

- Developed an unbeatable AI through the minimax algorithm which will always guarantee the best move is made
- Optimized the algorithm by disregarding any redundant evaluations via alpha-beta pruning

TECHNICAL SKILLS

- **Languages:** Python • PHP • C • Java • JavaScript • Bash • Scheme / Racket • Haskell • Assembly
- **Tools:** MySQL • Docker • Git / Github • Postman • SSH • VS Code • JUnit • Photoshop • MS Office

EXTRACURRICULARS

Cherry Beach Soccer Club (Captain) Summer 2019 & 2020

Monarch Park CI Soccer Team (Varsity Soccer MVP 2017-18) 2015 – 2019