

Marcus Chok

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EDUCATION

University of Waterloo

Candidate for Bachelor of Computer Science

Sep 2020 – Jun 2025 (Expected)

- GPA: 3.92, CAV: 90.00% (Term Distinction: Fall 2020 – Spring 2024)

EXPERIENCE

Snowflake | Software Engineer Intern

Toronto, ON

Java, Kotlin, Python, Snowflake SQL, IntelliJ Platform Plugin SDK, JUnit, Gradle, Swing

Jan 2024 – Apr 2024

- Lead the design and implementation of an IntelliJ / PyCharm plugin for Snowflake Native App development
- Developed integrations and commands for SnowCLI to support project generation and Run Configurations
- Authored JSON Schemas to provide dynamic validation and autocompletion for YAML configuration files
- Implemented code generation actions using Apache Velocity templates to accelerate setup script creation

OANDA | Full Stack Web Developer Intern

Toronto, ON

TypeScript, React, Material UI, Cypress, Python, Pyramid, Django, Firebase, GoCD

Sep 2023 – Dec 2023

- Designed thread-safe logging timers to enable endpoint response time tracking and visualization in Splunk
- Developed UI/UX improvements and facilitated A/B tests using Firebase, increasing conversion rates by 10%
- Implemented input masking and reset functionality for all form fields, reducing abandonment rates by 20%
- Optimized pipelines and reworked extraneous jobs, decreasing deploy times by 60% and saving \$500/month

Workleap (Formerly GSoft) / ShareGate | Software Developer Intern

Montreal, QC

TypeScript, React, Next.js, Playwright, C#, ASP.NET Core, MongoDB, Azure

Jan 2023 – Apr 2023

- Architected Teams App enhancements to display meeting recordings and assign users as points of contact
- Augmented services using retry policies with exponential backoff, decreasing request failure rate by 10%
- Designed fakes for CQRS handlers to facilitate testing and development, reducing developer friction by 30%
- Improved error handling by implementing feature-scoped error boundaries and end-to-end smoke tests using page object models, increasing mean time between failures by 25% and reducing mean downtime by 20%

Ford Motor Company of Canada | Software Engineering Intern

Oakville, ON

TypeScript, React, Jest, Express, MySQL, Docker, Terraform, Tekton, GCP

May 2022 – Aug 2022

- Leveraged Ghost to prototype a WYSIWYG editor and blog that adheres to WCAG 2.0 Level AA standards
- Architected a CI/CD pipeline with Tekton to automate testing/deployment, decreasing throughput time by 40%
- Enhanced pipeline security with Checkmarx, SonarQube, and Fossa, eliminating 90% of vulnerabilities

TRIYO | Full Stack Developer Intern

Toronto, ON

JavaScript, React, Redux, C#, ASP.NET MVC, xUnit, Moq, SQL Server

Sep 2021 – Dec 2021

- Implemented dynamic dashboard widgets and designed web services to consolidate enterprise workflow data
- Refactored state logic to cache and centralize changes to client-side data, lowering database load by 50%
- Optimized LINQ queries to a cloud-based MSSQL Server instance to decrease network latency by 66%

SKILLS

Languages:

TypeScript, JavaScript, Java, C#, HTML, CSS, C++, SQL, Python

Libraries and Frameworks:

React, ASP.NET Core, Next.js, Express, Redux, Angular, Swing

Tools and Technologies:

Git, Node.js, Google Cloud Platform, Microsoft Azure, Docker, IntelliJ Platform