

# Marcus Chok

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## SKILLS

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**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

## EXPERIENCE

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**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%

## EDUCATION

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**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)