

Kristofer Gaudel

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EDUCATION

University of Waterloo

Honours Bachelor's of Computer Science

Waterloo, ON

Sep. 2021 – May 2025

TECHNICAL SKILLS

Languages: Typescript, Javascript, Python, Go, C++, C, SQL

Technologies: React, Redux, Jest, GraphQL, Node.js, CI/CD Pipelines, Kubernetes, Terraform, Azure, Grafana

EXPERIENCE

Software Engineer (Cloud Platform Architecture)

Jan. 2023 – Apr. 2023

Manulife Financial Corporation

Toronto, ON

- Developed the POC for a *Terraform* Audit Trail Analysis application using *Python* and *Grafana* to measure key IaC metrics and monthly resource limits, increasing visibility for **150** platform engineers
- Created **10+** analytics dashboards using *Grafana* and *SQL* to provide visibility and cost optimization for unused Azure resources, resulting in **monthly savings of \$80k**
- Lead the solution architecture and engineering of an *Azure Logic App* notification system for expired service principals, leading to **10% lower** incident response times
- Wrote and deployed an Azure Function App using *Python* and *GitHub CI* to retrieve information for impacted subscriptions, increasing total service health coverage by **15%**

Software Engineer

May 2022 – Sep. 2022

NCR Corporation

Waterloo, ON

- Developed **15+ core features** for a proprietary banking application to production using *React* and *Javascript*
- Implemented unit and end-to-end tests to increase application testing coverage by **10%** using *Jest* and *React Testing Library*
- Restored crashed *Kubernetes* nodes after a major outage to unblock **30+** developers
- Managed the integration, testing, and deployment of new application features using *Jenkins CI/CD*

Full Stack Engineer

Jul. 2021 – Oct. 2021

WireBuddy

Toronto, ON

- Built **10+ core features** (e.g. Customer chat, Receipts) for MVP using *React*, *Redux*, *Typescript*, *Python* and *MySQL*
- Lead the development of a full-stack marketing page using *Gatsby* and *GraphQL* that reached **200 unique monthly visitors**
- Managed and automated feature deployment using a *GitHub CI* pipeline

Software Development Engineer

Sep. 2019 – Jan. 2020

University Health Network

Toronto, ON

- Lead the development of a hospital database application using *HTML*, *CSS*, and *Node.js* to retrieve and display contact data from **30+** hospitals across the GTA
- Developed a marketing website for the upcoming release of a company-developed data visualization tool using *Javascript* and *Express* to market the project's goals to investors

PROJECTS

py-lox | *Python Tree-walking Interpreter*

- Developed core features such as a **recursive descent parser**, **abstract syntax tree generator** and error-handling
- Implemented a **fully objected oriented** language using industry design patterns and semantic analysis

Driftr | *HackTheNorth 2020++ Project*

- Lead the design and implementation of UI/UX mockups for a full-stack drowsy-driving prevention app in *Figma*
- Built application features using *Vue.js*, *Javascript*, and *CockroachDB* for data persistence
- Implemented machine learning models using *Tensorflow* to track user movements and classify drowsy drivers