

# William Kennedy

New graduate, full-stack developer with two years of experience developing, testing and deploying robust, scalable code in a fast-paced work environment. Skilled in cloud-based web, developing intuitive and responsive user interfaces and backend development.

## EDUCATION

**Queen's University**, Kingston ON — *B.A.Sc Computer Engineering*

September 2018 - April 2023

## WORK EXPERIENCE

**CarbonGraph**, Toronto (Remote) ON — *Full Stack Developer*

January 2022 - April 2023

- Spearheaded the front-end development during the company's pivotal re-design of its graph model product using the **PostgreSQL, Express, React, and Node** stack, contributing to our inclusion in Foresight's Canada's Top 50 "Most Investable" **Clean-Tech Firms**.
- Designed and implemented multi-tenant authentication systems, fortifying site-wide security by leveraging **cookies and JWT tokens**.
- Engineered and rigorously tested APIs using **TRPC.IO**, enhancing type safety and optimizing backend-frontend communication.
- Acquired comprehensive knowledge of **AWS ECS** through hands-on experience deploying front-end and back-end containers, creating Lambda functions, and troubleshooting API logs.

**Rio Tinto**, Kitimat BC — *Automation Engineering Intern*

May 2021 - August 2021

- Collaborated with the automation team to **elevate the aluminum smelting plant's overall efficiency, safety, and sustainability** through the deployment of cutting-edge industrial technology.
- Led a significant summer **project worth over \$200,000**, focusing on integrating **industrial machine vision** into the anode production line. Automated the evaluation of anode stems for visual deformities.
- **Navigated an extended strike** with limited resources, maintaining deadlines despite long hours and heightened workload.

## PROJECTS

**Portfolio Website** - <https://18wsk.github.io/Portfolio>

August 2023

- Created a personal website with a **responsive design** with an **interactive UI** deployed using Github pages.

**SwiftChat** - <http://swiftchat.ca>

July 2023

- **Real-time chat application** leveraging **web sockets** for swift messaging speeds and **end-to-end security** thanks to **JWT integration and data encryption**.
- Includes complete type-safe **NoSQL Queries** and **API** via **Mongoose** and **TRPC** integration.
- Hosted and deployed on **AWS EC2** utilizing a **MongoDB** cloud database.

**DocQshare** - <https://github.com/ArshKochhar/DocQshare>

Sept 2022 - April 2023

- My university capstone project was creating a **file-sharing system on the ETH blockchain** testnet.
- I lead the **full-stack development and project management** of this project.

## CONTACT

[www.linkedin.com/in/wskennedy](https://www.linkedin.com/in/wskennedy)

[will.stephen.kennedy@gmail.com](mailto:will.stephen.kennedy@gmail.com)

## TOOLS

Python	React
REST API	NodeJS
JavaScript	TypeScript
HTML	Redux
CSS	TailwindCSS
CSS Testing	PostgreSQL
MongoDB	AWS
PLC Programming	Responsive Design
Data & Algorithms	Agile
Github	

## SOFT SKILLS

Time-Management  
Organized  
Coachable & Receptive  
Team Collaboration

- This site also features **blockchain wallet integration** (Metamask) and tenant authentication via **JWT tokens**.