William Kennedy

New graduate, full-stack developer with two years of experience in 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 *B.A.Sc Computer Engineering*
May 2021 - August 2021

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 monitoring 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 **high-impact summer project with a valuation exceeding $200,000**, centered on the seamless integration of industrial machine vision in the anode production line. Successfully automated the evaluation of anode stems based on visual deformities, achieving a high level of accuracy.
- **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 using React, TS, Tailwind CSS deployed using Github pages and Git CI/CD.

SwiftChat – http://swiftchat.ca
July 2023

- **Real-time chat application leveraging web sockets** for swift messaging speeds.
- This project includes **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**. This site also features blockchain wallet integration (Metamask) and tenant authentication via JWT tokens.

CONTACT

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TOOLS

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

SOFT SKILLS

Time-Management

Organized

Coachable & Receptive

Team Collaboration