# Iskander Dauletov

**Software Engineering | University of Waterloo**

519-781-6568 | idauleto@uwaterloo.ca | LinkedIn | GitHub | Portfolio Website

---

## SKILLS

**Languages:** JavaScript, TypeScript, C++, C, HTML, CSS, SCSS, SQL, Bash, Python, Java
**Technologies:** Node.js, Git, Vue.js, React.js, Express.js, Jest, Material UI, Tailwind CSS, Bootstrap, Numpy, Scikit-learn, Pandas, Selenium, VS Code, Postman, MongoDB, Docker, Google Firebase, REST API, Netlify, Arduino, Oracle VM VirtualBox
**Concepts:** Relational Databases, Unit Testing, Full-Stack, Frontend, Backend

---

## EXPERIENCE

**FEROOT SECURITY | Software Developer**            **January 2024 – April 2024**
- Developed automated tests using **Jest** and Vue testing library for the **Vue** components on the code base increasing the test coverage by more than **10%** or more than **2500** functional lines and statements covered
- Implemented **4** new features for the product using **Vue** on the frontend and **Typescript** on the backend
- Fixed more than **10** different bugs in production to enhance UX and ensure the best possible software performance
- Refactored more than **50** files on the code base to make the code cleaner and more readable

**HATCH CODING | Software Engineering Intern**            **May 2023 – August 2023**
- Created **13** web applications with **30+** total features using **JavaScript**, **React**, **REST API, HTML, CSS**
- Developed **12+** automated test suites in **Jest** with **100**% coverage to improve code quality and maintainability
- Ensured cross-platform compatibility and friendly UI/UX across various devices using **Tailwind CSS**
- Conducted rigorous testing, troubleshooting, debugging, and optimization to ensure high-quality deliverables

**SMARTNET | Software Engineering Intern**            **July 2021 – August 2021**
- Implemented shortest route algorithm in **Python** between **100s** of addresses with **Numpy, SKlearn, Pandas, and Selenium**
- Learned TCP/IP networking protocols system administrators apply on a daily basis
- Applied **Virtualization (Oracle VM VirtualBox)** to reduce operating costs and increase storage capacity by **5%**

## PROJECTS

**C Compiler**            **September 2023 – December 2023** | GitHubRepository
- Engineered a full-featured compiler using **C++** for a subset of **C** language
- Fully implemented a simplified Maximal Munch algorithm for the lexical scanner
- Utilized the SLR parsing algorithm for a parser, and developed a code generator for **MIPS** assembly language

**ACTIVITIES LOG**            **June 2023 –July 2023** | GitHubRepository
- Applied knowledge of **React** to create functional website using function components and hooks
- Created a practical design with **Material UI** that uses **Firebase Authentication** for users to log in
- Ensured data is saved safely using **Firebase Firestore** when designing a dashboard where users view construction activities

**FITNESS CHATBOT**            **July 2023 – August 2023** | GitHubRepository
- Designed a chatbot that can help achieve fitness goals faster via custom **GPT3** model trained on tailored data
- Utilized **OpenAI API** so the client can retrieve completions based on trained data through secure https
- Structured all the API calls using **Netlify CLI** in order to deploy website safely without exposing the API key

**INTERNET STORE**            **July 2023 – August 2023** | GitHub Repository
- Developed a searching algorithm for an internet store emulator where users can browse for **50+** products
- Implemented responsive design with **Tailwind CSS** and a contact form developed in **Node JS** for users to reach out to me

**DESIGN PROJECT**            **September 2022 – December 2022** | GitHub Repository
- Designed a machine that uses **image processing** to draw any image on a whiteboard
- Devised an algorithm in **C++/Python** for the **Arduino** circuit with a carriage to move freely across the whiteboard
- Drew an accurate image of the Course Professor and earned our team a final grade of **95%** in the course

**PORTFOLIO WEBSITE**            **August 2023 – Present** | GitHub Repository
- Developed a website that has the most up to date information about my experience, projects, contact information, and that has cross-platform design with friendly UI created with **Javascript** and **CSS** to ensure the best possible UX

---

## EDUCATION            *University of Waterloo, Bachelor of Software Engineering*
- Courses: Data Structures & Algorithms, OOP, Computer Architecture, Database Management
- **$12,000 Annual Scholarship of Distinction** with a cumulative average of 84%