

# Iskander Dauletov

Software Engineering | University of Waterloo

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## SKILLS

**Languages:** C++, C, JavaScript, TypeScript, HTML, CSS, SCSS, Bash, Python, Java

**Libraries/Frameworks:** Vue.js, React.js, Express.js, Jest, Vue Testing Library, Material UI, Tailwind CSS, Bootstrap, Numpy, Scikit-learn, Pandas, Three.js, D3.js, Selenium

**Developer Tools:** Git, VS Code, Postman

**Other:** Node.js, MongoDB, SQL, Docker, Firebase, REST API, Netlify, Arduino, Oracle VM VirtualBox

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## 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 **8%** 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 for a construction company using **JavaScript**, **React**, **REST API**
- Developed **12+** automated unit tests 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

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## EDUCATION

University of Waterloo, Bachelor of Software Engineering

- Courses: Data Structures & Algorithms, OOP, Compilers, Computer Architecture, Database Management
- **\$12,000 Annual Scholarship of Distinction** with a cumulative average of 84%