

Iskander Dauletov

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SKILLS

Languages: JavaScript, TypeScript, Python, C++, C#, C, HTML/CSS, Java, SQL, Bash

Technologies: Node.js, ASP.NET, Git, Vue, React, Express, Jest, Material UI, Tailwind CSS, Bootstrap, Django, NumPy, Pandas, SKlearn, Selenium, Postman, REST API, Redis, Arduino, Oracle VM VirtualBox, Docker, MongoDB, Google Firebase, PostgreSQL

Concepts: Relational Databases, Unit Testing, Full-Stack, Frontend, Backend, MVC Architecture

EXPERIENCE

Descartes Systems Group | Software Developer Intern

September 2024 – December 2024

- Implemented logistic agents using **MVC** architecture to facilitate seamless communication and coordination between **200+** buyers and suppliers to ensure timely product delivery
- Built a **RESTful** endpoint for daily email processing requests enabling **110+** users to receive real-time updates and insights
- Optimized search functionality in **C# ASP.NET Core** by developing advanced filtering mechanisms, enabling users to refine query results with granular date-based criteria alongside broader date parameters
- Spearheaded integration of secure controller layers using **C#**, implementing security checks against **XSS** and **CSRF** attacks

Feroot Security (YC W21) | Software Engineer Intern

January 2024 – April 2024

- Integrated JIRA authentication workflows using **TypeScript** enabling seamless UX and dynamic token reconfiguration
- Engineered automated test suites utilizing **Jest** and the Vue Testing Library to validate **Vue** components' functionality, increasing test coverage by over **10%** and encompassing **2,500+** functional lines and statements
- Resolved **10+** production issues, improving UX and ensuring optimal software reliability and performance
- Refactored **50+** codebase files, enhancing application performance, maintainability, and scalability

Manulife | Full Stack Developer Intern

May 2023 – August 2023

- Integrated bar, line, and pie chart visualizations using **React** creating frontend interface with intuitive data representation
- Coded **40+** automated test suites using **Jest**, achieving **100%** code coverage to enhance quality assurance
- Ensured cross-platform compatibility and intuitive UX across diverse devices by utilizing **Tailwind** for adaptive styling
- Conducted rigorous testing, troubleshooting, debugging, and optimization to ensure high-quality and reliable deliverables

Smartnet | Software Engineer Intern

June 2022 – August 2022

- Implemented an algorithm to solve the Vehicle Routing Problem using **Python**, **NumPy**, **Pandas**, and **Selenium**
- Integrated address validation for **100s** of addresses to compute the shortest routes for multi-stop navigation
- Analyzed **TCP/IP** protocols to improve networking insights and applied virtualization techniques to lower operational costs

PROJECTS

Monopoly | *Python, Django, PostgreSQL, Redis*

- Composed a Monopoly game incorporating the Singleton design pattern in **Python** with user authentication in **Django**
- Configured WebSocket communication with **Redis** cache to ensure real-time synchronization for concurrent users

C Compiler | *C++, MIPS Assembly*

- Engineered a full-featured compiler using **C++** for a subset of **C** language, enabling efficient code translation and execution
- Implemented algorithms for token recognition and parse tree creation that is utilized for MIPS code generation

Chess | *C++, X11*

- Developed a fully functional chess game with both text-based and graphical displays enhancing **UX** using **C++** and **X11**
- Modeled **4** difficulty levels of a computer player using design patterns that adhere to **SOLID** principles
- Designed a UML diagram to ensure optimal **OOP** design and introduced a unique fairy chess piece as an exclusive feature

Fitness Chatbot | *JavaScript, HTML, CSS*

- Architected a chatbot via custom **GPT-3** model, enabling personalized guidance to accelerate fitness goal achievement
- Integrated the **OpenAI API** with secure **HTTPS** protocols, facilitating retrieval of tailored completions for client requests

Design Project | *Python, C++, Arduino*

- Assembled a drawing machine utilizing **image processing** techniques to accurately render images on a whiteboard
- Devised an algorithm in **C++/Python** for **Arduino** circuitry, enabling precise carriage movement across a flat surface

EDUCATION

Bachelor of Computer Science, University of Waterloo

- Courses: Data Structures & Algorithms, Operating Systems, OOP, Computer Architecture, Database Management
- \$12,000 Annual Scholarship of Distinction** with a cumulative average of 83%