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

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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 | Software Developer   **January 2024 – April 2024**
- 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
- Integrated JIRA authentication workflows using **TypeScript** enabling seamless UX and dynamic token reconfiguration
- Resolved **10+** production issues, improving UX and ensuring optimal software reliability and performance
- Refactored **50+** codebase files, enhancing application performance, maintainability, and scalability

Hatch Coding | Web Application Developer   **May 2023 – August 2023**
- Created 13 dynamic web applications with 30+ features, leveraging **React**, **JavaScript**, **REST API**, **HTML**, **CSS**
- Developed 12+ automated test suites using **Jest**, achieving **100%** code coverage to enhance quality assurance
- Ensured cross-platform responsiveness 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 Engineering Intern   **July 2021 – August 2021**
- Implemented shortest route algorithm in **Python** between **100s** of addresses with **NumPy, SKlearn, Pandas, and Selenium**
- Analyzed **TCP/IP** networking protocols frequently applied in system administration to improve networking insights
- Applied virtualization techniques via **Oracle VM VirtualBox** to reduce operational costs and expand storage capacity by **5%**

PROJECTS

Monopoly | *Python, Django, PostgreSQL, Redis* | GitHub Repository
- 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* | GitHub Repository
- Engineered a full-featured compiler using **C++** for a subset of **C** language, enabling efficient code translation and execution
- Fully implemented a simplified Maximal Munch algorithm for the lexical scanner improving the speed of token recognition
- Utilized the SLR parsing algorithm for a parser, and developed a code generator for **MIPS** assembly language

Chess | *C++, X11* | GitHub Repository
- 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 | GitHub Repository
- 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* | GitHub Repository
- 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

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