Roy Sun

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Technical Skills

Languages: Java, Python, C#, C, C++20, SQL(Oracle and Postgres), JavaScript/TypeScript, Dart, Bash
Frameworks/Tools: Express.js, Node.js, Redux, JUnit, ASP .NET, OpenAPI, Flutter, Git, Postman
Libraries: D3.js, React, Socket.io, Vulkan, GLFW, GLM

Experience

Full-Stack Software Developer   Jan 2023 – Dec 2023
Ross Video   *Ottawa, ON*

- Resolved 40+ tickets over multiple repositories regarding full-stack features and automated testing
- Enabled cross-app communications through Restful APIs endpoints using Java and OpenAPI
- Improved data transfer rates by 21% through bundling/batching with C and Protobuf serialization
- Elevated user experiences by redesigning interfaces in TypeScript within a React/Redux-based framework
- Increased code coverage to 75%+ by adhering to test-driven development guidelines and creating unit tests
- **Technologies Used**: Java, TypeScript, Jetty, OpenApi, React, Redux, C, Protobuf, Robot

Software Engineer   May 2021 – August 2021
Versaterm   *Ottawa, ON*

- Refactored server-side Legacy Code on and created features in C#, ensuring stability for 100+ clients
- Analyzed App behavior by monitoring Cross-app Communications and added configuration settings in XML
- Utilized a Proprietary Language acquired on-site to develop Full-stack features
- **Technologies Used**: C#, Genero GBP, XML, Vim

Projects

Voxel Game Engine | *Vulkan, GLfW, GLM, ImGui, C++*   June 2023 – Present

- Developed a simple 3D voxel-based Game Engine with Real-time Graphics and Procedural Generation
- Employed C++ and Low-level Programming techniques to manipulate Vulkan memory buffers, enabling the implementation of Instanced Rendering for voxel graphics
- Integrated GLM for advanced mathematics and GLfW for window management, emphasizing a design with a clear Separation of Concerns

AI Resume Writer app | *Flutter, Dart*   August 2023

- Created a Mobile App that utilizes the Chat-GPT API to enhance and simplify the resume writing process
- Published on the app store as Resume Builder AI: CV Maker gaining 12,000+ users and over $300 in revenue
- Developed many critical features: previews, export capability, editing functionality, and template selection

HVK Reservation System (Case Study) | *C#, ASP .NET MVC*   March 2021

- Practiced Agile development as a small team of 3 using Microsoft Azure DevOps
- Designed and created a Relational Database using Oracle Database
- Built a complete Full-Stack application using C# and ASP .NET MVC

Education

University of Waterloo   Waterloo, ON
Major in Combinatorics and Optimization, Minor in Computing   *Expected 2025*

Cégep Heritage College   Gatineau, QC
Major in Computer Science   *2019 – 2021*