Luke Burton

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WORK EXPERIENCE

Monocle Social, Provo, UT – *Freelance Software Engineer*
Jun - Oct 2023

- Designed a client-facing web application to view competitor data retrieved from Instagram API. Incorporated OpenAI to generate content ideas for Instagram professionals. Integrated Facebook Login for secure authentication. Built with Ruby on Rails and deployed to Heroku with a PostgreSQL database.

- Updated an existing Python script for generating Instagram account analytics, resolving an issue with calling external APIs in a continuous loop. This reduced the frequency of API rate limiting by 70%.

ICSD, Cedar City UT — *Music & Band Paraprofessional*
Aug 2022 - May 2023

- Coordinated with band teachers to develop lesson plans for beginner through intermediate musicians.

- Solved computer lab equipment issues by disassembling computers, replacing components, and reinstalling software.

SCHOOL AND PERSONAL PROJECTS

JavaFX Scheduler
Desktop scheduling app and database frontend.
- Desktop GUI with Java, JavaFX and MVC architecture.
- Create, update, and delete customers and appointments in a MySQL database.
- Search appointments, filter by week, month, and type.
- Date and time values are propagated according to the user's time zone.
- Localization in English and French.

Endeavor Game Framework
C++ and OpenGL game rendering library and framework.
- 2D geometry batching in OpenGL.
- Window management, core game loop, and rendering are handled by the framework while exposing an API as virtual overrides.
- CMake for build-system management.

EDUCATION

Western Governors University – Bachelor of Science, Computer Science
Mar 2021 - Feb 2024

- Desktop Application Development (Java)
- Object-Oriented Programming (C++)
- Front-end web development
- Advanced database management (Postgres)

SKILLS

- Ruby
- Rails
- PostgreSQL
- C++
- Java
- MySQL
- JavaFX
- Python
- OpenGL

CERTIFICATIONS

- CompTIA Project+
- ITIL v4 Foundation

ABOUT ME

I am a student studying Computer Science at Western Governors University, an all-online school where I've been self-driven in my education in order to accomplish coursework. I'm passionate about building software and spending time outdoors running, rock climbing, and playing tennis.