

Mattie Graf

Computer Science Graduate

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Technical Skills

Languages

Java, JavaScript, C++, C, TypeScript, SQL, Python, Racket, HTML, CSS, Prolog, Haskell, Erlang

Frameworks/Tools

Node.js, React, Phaser, JUnit, MySQL, RESTful APIs, Git, Unix, Linux, Android Studio

Education

September 2016 - November 2019 - Bachelor of Science in Computer Science at University of British Columbia

Projects

Task Keeper Android App - Personal Project using Java, SQL

- An android app that provides a place for keeping track of tasks, with a simple organization system that keeps things clear and relevant. Uses a SQLite database to store information locally.

Forum Database Web App - Class Group Project using JavaScript, React, Node.js, SQL, MySQL, Express

- A web forum with a React front end and an Express / Node.js backend. Forum data is stored and queried from a MySQL database. Contains different subforums where users may make and comment on posts. Admin users may delete posts and comments at their discretion.

Lightbug.io HTML5 Web Game - Personal Project using JavaScript, Phaser 2

- .io style browser game in which you control a firefly, aiming to survive the allotted time and be the last player standing. Includes AI decision making, state changing, mouse following, graphical and lighting effects.

Reddit to Discord Bot - Personal Project using JavaScript, Node.js, Snoowrap, Discord.js

- Monitors a subreddit for new posts and forwards them to a Discord channel asynchronously. Makes calls to the Discord and Reddit APIs. Gracefully handles server downtime by restoring missing posts.

Veggie Vengeance Game - Term Project using C++, OpenGL

- A standard, stock fighting game built from the ground up without an engine. Implemented many core mechanics including: the collision system, projectile physics, shared keyboard support, music and playback options, numerous character abilities, hitpoint and stock system.

Work Experience

April 2020 - Present - Graf Excavating - Office Assistant

- Engages in data entry using Excel, completes various organizational tasks, verifies there are no errors in prices between statements and invoices.

June 2015 - August 2016 - Starbucks - Barista

- Worked as a team to take and complete orders efficiently at a high volume store. Assumed a variety of roles including front till, drive thru, drink assembly, and customer support. Partner of the month recipient for August 2016.

September 2013 - July 2014 - EB Games - Sales Associate

- Assisted customers in store and over the phone. Maintained sales goals through suggestive selling.

September 2013 - July 2014 - 49th Parallel Grocery - Cashier

- Completed customer transactions and parcel pickup. Answered customer queries over the phone.