David Gordon . Jarvis Consulting

Hi, my name is David Gordon. I am a professional Software Engineer based in Toronto, working on various projects at Jarvis. I received a diploma in computer programming from Conestoga College, and I'm experienced in various technologies, languages and frameworks, creating efficient applications and elegant interfaces. I've created RestAPI's in Go, Rust, C# and Java, as well as full-stack apps using Blazor, Bootstrap, Angular, and deployed them to the cloud via Azure.

Skills

Proficient: Java, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git, C#

Competent: C/C++, Rust, Typescript, Python, React

Familiar: Azure, Angular, Assembly, Lua, Non-Relational DBs

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_DavidGordon

Cluster Monitor [GitHub]: The Linux Cluster Monitoring Agent is a simple yet powerful solution to gathering a host system's hardware information and usage. This product is intended for IT teams who need a way to log and review their systems usage to manage server costs and performance.

Sql Queries [GitHub]: The SQL Queries project consists of several SQL tables that contain different relations to one another, in a PostgreSQL database running in a docker container. The purpose of this project was to become more familiar with SQL and it's various features, such as Aggregate functions, String functions, Joins, Unions and more. We created queries to Insert, Update and Delete records from tables, used Joins to combine tables for more complex views into our data, and Subqueries to collect and display specific information, like the facility with the highest bookings.

Java Grep [GitHub]: The Grep app is a small Java applications that takes advantage of the Java 8 Stream API, and regex pattern matching to search for specific patterns in files withing a given directory. The use of Lambda expressions for filtering data makes the underlying code more expressive, and therefore easier to understand. The app uses SLF4J to log any errors to the User, and allows the User to provide an out file where all matches will be written. The Grep app was also Dockerized for easier distribution.

Stockquote JDBC [GitHub]: The Stockquote app is a Java tool that enables users to buy and sell stock positions in real-time. The app uses a third-party API that returnsstock market data in JSON format, which is then parsed into Java objects for processing. Itleverages modern libraries such as OkHttp for making HTTP requests and Jackson for efficiently parsing JSON data. Requests are stored in a PostgreSQL database running in a Docker container. The application contains numerous Unitand Integration tests to ensure program accuracy.

Javascript & Typescript [GitHub]: In the Javascript and Typescript project, I was able to gain acomprehensive understanding of both languages. The project served as an in-depth learning experience, from fundamental Javascript concepts like Callbacks and the Event-Loop, to more advanced topics in Typescript such as Generics and OOP. Ileveraged my new skills by creating datastructures like a Doubly Linked List, implementing a Sudoku solver, and solving complex algorithmic problems. Overall,the project helped me learn asynchronous programming, modular design, and the effectiveness of TypeScript's powerful type system.

Highlighted Projects

Flashtyper type tester [GitHub]: Online typing speed tracker with a global leaderboard. Written in C# ASP.NET, data is stored in a Microsoft SQL Server database, hosted in the cloud via Azure

Epistle [GitHub]: Note-taking web application focused on simplicity and portability. Allows the user to create 'Bookshelves' to store and organize their notes. Implemented in ASP.NET Core, EntityFrameworkCore and Microsft SQL Server database.

Professional Experiences

Software Developer, Jarvis (2023-present): As a profesional developer at Jarvis, I am responsible for creating and managing various software projects, as well as testing, debugging, automating, and deploying the applications. I use

Agile/Scrum methods to keep my work organized and ensure I finish tasks on time, and proper GitFlow to keep my software workflow consistent.

Software Developer, VAR Lab (2023 Jan-2023 April): Designed software solutions and tests to support the creation of an augmented/virtual reality platform that can be easily extended/modified to support a range of demo projects in support of ongoing Applied Research objectives at Conestoga College.

Education

Conestoga College (2020-2023), Diploma of Computer Programming, Computer Engineering - First Place VAR Lab Fall Hackathon

Miscellaneous

- Unity Game Programming (2023)
- 5th Place Ontario Regional Volleyball (2015)
- Web Design
- Open Source Development
- Soccer, Cars and Video Games!