Kiarash Zamani

Coquitlam, BC - 778-682-0450 - kiarash zamani@sfu.ca - kiarashzamani.com



Technical Skills

Languages: Java, JavaScript, HTML, CSS, Python, R, C, C++, SQL, MATLAB

Tools & Technologies: VS Code, Git, MySQL, Node.js, Docker, MongoDB, Android, Linux

Relevant Courses: Cybersecurity, Applied VR & Hybrid Media, Database Systems

Technical Projects

Mountain Ride Share github.com/kza40/MountainRideShare

Aug. 2024

Personal Project

- Designed and developed *Mountain Ride Share*, a web application aimed at reducing transit load and emissions by facilitating driver-rider matches for downhill transportation, utilizing RESTful API using the Express.js framework, enabling real-time route planning and user authentication.
- Implemented Google Maps API integration to enable users to specify pickup and drop-off
 locations, with interactive mapping features for route planning and distance calculations,
 enhancing the user experience
- Engineered an emissions-saving feature that calculates and displays environmental impact reductions from carpooling, leveraging MongoDB for dynamic storage and retrieval of user and ride data

<u>EcoSpectra</u> Jun. 2023 – Jul. 2023

Semester In Alternate Realities

- Directed an agile team towards building a VR experience using Unity game engine that displays the arch of humanity's relationship with the environment
- Designed and developed a 3D oculus experience featuring interactive objects coded in C#, and a movable character
- Improved Unity applications based on user testing feedback to achieve a logical environment and total immersive experience

GameKeeper Software github.com/kza40/GameKeeper

Dec. 2022

Software Development

- Engineered a comprehensive structural and integration test suite utilizing the Junit 5 framework to ensure high code coverage
- Collaborated with a three-person team on GitLab, employing branching strategies for efficient parallel development and seamless code integration
- Regularly communicated with clients to gather and clarify application functionality requirements and enhance overall efficiency

Spaceship Finder Game github.com/kza40/SpaceShipFinder

Oct. 2022

Introduction To Software Development

- Implemented the game UI and developed the backend to optimize game operations, ensuring seamless and engaging gameplay
- Developed possibility to change the dimensions of the game to make the game end quicker or longer based on the user's opinion
- Designed user acceptance testing protocols as the final phase of applications development

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Hackathons

Jumbled Challenge

Feb. 2023

Mountain Madness 2023, Burnaby, BC

- Developed a Java desktop application that facilitated sending and receiving messages between clients using web sockets, after translation of messages using Google Translate API
- Utilized multi-threading to effectively manage web socket connections, ensuring smooth and efficient communication between clients and the server application
- Designed and implemented a responsive user interface for the application, leveraging Java AWT and Swing libraries

SAP Social Oct. 2022

SAP Invitational Hackathon 2022, Vancouver, BC

- Created an application in a group to promote hybrid work environment and scheduling, using GitHub for collaboration
- Programmed the application using Java, Android Studio, to create a custom reactive user interface with different modes of interaction and screens
- Tested code for robustness; executed edge case, usability, and general reliability analysis

Technical Work Experience

Technical Specialist

Oct. 2020 - Apr. 2022

London Drugs, Coquitlam, BC

- Led a technical team towards performance goals by organizing tasks and offering solutions, achieving sales goals and smooth operation
- Troubleshot and resolved problems with programs and systems, leading to customer satisfaction
- Provided training on desktops, laptops and mobile devices for company users
- Offered technical helpdesk support to customers on printers, PCs and laptops and mobile devices
- Suggested product offerings and technology upgrades to customers to improve overall security

Education

Simon Fraser University, Burnaby, BC

Expected Apr. 2025

- Dean's Honour Roll Recipient
- Bachelor of Computing Science

Technische Universität Darmstadt, Darmstadt, Germany

Feb. - Sep. 2024

• International Exchange Semester