Simardeep Singh

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TECHNICAL SKILLS

Languages: C, Java, Python, HTML, CSS, JavaScript, R
Web Development Framework: Astro, React, Bootstrap, node.js
Development: Git, AWS, Automated Testing, Linux, Docker
Others: Object-Oriented Programming, Data Structure and Algorithms, REST APIs, Software Development Life Cycle (SDLC), Agile methodology, Microsoft Office Suite, UNIX/Linux, Windows

WORK EXPERIENCE

Teaching Assistant, Data Structures, University of Guelph   **5 Sept 2023 – Present**
- Provided comprehensive support for Data Structures and Algorithms, including addressing inquiries, leading lab sessions, and ensuring exam integrity.
- Played a key role in student success by facilitating orientation, offering personalized support during office hours, collaborating on course material, managing correspondence, and providing constructive grading.

Bioinformatician Co-op, Norgen Biotek, Thorold, ON   **08 May 2023 – 31 Aug 2023**
- Led containerization of three vital bioinformatics pipelines using Docker, ensuring reproducibility and scalability.
- Optimized pipelines and script performance in Python, R, & Bash, making scripts faster and efficient by almost 60%.
- Authored SOPs for process standardization and troubleshooted complex system issues.

Software Test Co-op, Intellijoint Surgical, Kitchener, ON   **6 Sept 2022 – 23 Dec 2022**
- Developed and executed software test plans, including both manual and automated test cases using CodeceptJS and Playwright.
- Reduced the time spent on testing by implementing automated testing by 70-80%.

Software Developer Co-op, Camis Inc., Guelph, ON   **30 May 2022 – 2 Sept 2022**
- Collaborated effectively in a team to construct a Rental Dashboard for Camis app and website using SQL.
- Demonstrated proficiency in unit test maintenance, ticket and bug report responses, and product design reviews.

PROJECTS

GryphHub   **March 2023**
- University website built using Java OOP concepts.
- Built use case diagrams, class diagram, entity diagram and sequence diagram.

SVG Parser Web Application   **January 2022**
- Created and utilized an interactive web-based GUI that communicates user data with the server.
- Executed the integration of C-based SVG parsing libraries, ensuring compliance with API specifications.

Personal Portfolio website   **January 2022**
- Utilized Astro's static site generation to ensure fast loading times and excellent performance.
- Achieved optimized performance and mobile responsiveness, ensuring a seamless user experience and improved online visibility.

COVID-19 Statistical Data Analyzer   **March 2021**
- Proficiently processed, analyzed, and visualized COVID-19 data along with related datasets from .csv files.
- Leveraged Python libraries including Seaborn, Matplotlib, and Pandas to create insightful data representations, facilitating data-driven decision-making.

Portfolio of Investment   **November 2021**
- Developed a graphical user interface (GUI) application enabling users to perform actions such as buying, selling, updating, calculating profits, and searching for stocks or mutual funds within stored data.
- Utilized Java, Swing, AWT, and applied object-oriented programming (OOP) principles to create an intuitive and efficient user experience.

SKILLS

- Proficient in software engineering principles, including design, testing, and implementation.
- Highly self-motivated and quick to grasp and learn new technologies, concepts, and scenarios.
- Demonstrated outstanding analytical and problem-solving abilities through independent project and co-op work.
- Self-starter with excellent interpersonal skills, capable of thriving in a fast-paced environment and multitasking.

EDUCATION

Bachelor of Computing|Major Software Engineering (Co-op)|Minor Entrepreneurship|University of Guelph (2020–Present)