Adam Badar

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EDUCATION

University of Toronto Toronto, ON
Software Engineering Specialist in Computer Science, Minor in Economics *Expected December 2024*

TECHNICAL SKILLS

Languages and Frameworks: C, Python, Java, Javascript, CSS/HTML, SQL, Bash, Typescript, Flask, Firebase
Developer Tools: VS Code, Git, GitHub, Postman, Jira, IntelliJ, Vim, Eclipse, Android Studio, OOP, SDLC, Unix

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Business Development Manager Oct. 2021 – Present
Maple Bit Services *Toronto, ON*

- Leveraged technical skills to develop and manage a **dynamic website**, increasing the annual profit by **20%**
- Created engaging presentations to showcase our products to potential clients, leading to increased client acquisition
- Onboarded clients, providing explanations of product functionality, and addressing any issues they may encounter

Computer Science & Math Tutor Nov. 2019 – Present
Self-Employed *Toronto, ON*

- Achieved a **15%** average improvement in academic performance by delivering personalized one-on-one tutoring sessions in **Java** and **Python** to high school students (grades 10-12)
- Developed and implemented customized lesson plans tailored to the unique learning styles and needs of each student, resulting in increased comprehension and engagement

PROJECTS

Finlearn | *Node.js, Express, Chakra UI, MongoDB, React, Postman, Typescript, Figma, Jira* May 2023 – Aug 2023

- Successfully delivered a fully functional web application with infrastructure to support over **10,000 users**, showcasing proficiency in **Node.js, Express, MongoDB, React, and Chakra UI**
- Implemented comprehensive **API testing** and documentation using **Postman**, meticulously ensuring full coverage and reliability of endpoints through extensive test cases and clear documentation
- Managed project workflow using **Jira**, maintaining clear communication throughout the development process

ChatUofT | *Javascript, Nodejs, Shell, Postman, MongoDB, HTML/CSS, React Native* Feb 2023 – July 2023

- Collaborated with a team of 3 frontend and 3 backend developers to develop a student communication platform. Actively participated in **daily scrum meetings** for efficient progress and effective collaboration on user stories
- Implemented a sophisticated **graph search algorithm** that recommends the most compatible individual to each user based on their course schedules and interests, enhancing the platform's user experience and engagement
- Utilized **Postman** to write comprehensive tests for API calls, ensuring reliable and accurate backend functionality

Course Planner App | *Java, Android Studio, Git, Firebase* Sept 2022 – Dec 2022

- Designed the backend architecture conforming to **OOP principles** to improve code reusability and scalability
- Developed the login module following Model-View-Presenter, meticulously testing its functionality to achieve full line coverage. Employed **JUnit and Mockito** frameworks for thorough verification of the module's behavior
- Managed a team of 4 members, scheduled and **moderated daily stand-up** meetings as Scrum Master while enabling effective communication and sharing of ideas and methods

Concurrent System Monitoring Tool | *Unix, Shell Scripting, C, Bash, Multi-threading* Sept 2022 – Dec 2022

- Developed a system monitoring tool in **C**, leveraging the power of multiple processes and inter-process communication through **pipes**. Effectively captured and reported various utilization metrics of the system
- Implemented graphical output for memory and CPU usage, leveraging custom visual symbols to dynamically represent changes in memory and CPU usage, enhancing the visual representation of data and user experience
- Successfully handled **10,000+ iterations** of system monitoring, averaging and reporting results based on the specified number of samples, while maintaining high accuracy and reliability