Harshit Sharma

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EDUCATION

MCMASTER UNIVERSITY

B.ASc in Computer Science and Minor in Economics
Sep 2020 - Present | Hamilton, ON

LINKS

Github:// **posxidon**
LinkedIn:// **harshit sharma**
Personal Portfolio:// **posxidon.github.io**

COURSEWORK

UNDERGRADUATE

- Data Structures and Algorithms
- Operating Systems
- Concurrency
- Functional Programming
- Object Oriented Programming
- Databases
- Compilers
- Computer Networks and Security
- Software Testing
- Human Computer Interfaces

SKILLS

PROGRAMMING

- **Languages:** Java, Shell, Python, JavaScript, Haskell, Matlab, Elm, LaTeX, C++, C, HTML/CSS, TypeScript, PHP, Assembly, GoLang
- **Technologies:** Node.js, React, Three.js, Express.js, MongoDB, MySQL, IBM DB2, Django, Angular, Tailwind CSS, yfinance, pandas, scikit-learn, scikit.metrics, Matplotlib, numpy, TensorFlow, Bootstrap, Azure Cloud, Azure Data Factory, Azure Data Studio
- **Developer Tools:** Git, Bash, Unix, JUnit, Microsoft Azure Cloud, Spring Tool Suite, Eclipse, IntelliJ Idea, Jira, Confluence, Bitbucket, Jenkins, Genchi Genbutsu, TestNG, Maven, REST API, Docker, Kubernetes, Selenium

PROJECTS

PNEUMONIA DETECTION | ML, TensorFlow, Python

- Developed pneumonia detection model using ML techniques for chest X-ray analysis.
- Achieved **81.25%** accuracy, **100%** precision, and **62.5%** recall.
- Independently implemented project showcasing ML, image analysis, and coding skills.

EXPERIENCE

ONTARIO MINISTRY OF HEALTH AND LONG TERM CARE | Junior Programmer

Jan 2024 - May 2024 | North York, Ontario

- Spearheaded the establishment of an Azure pipeline for automated testing utilizing **JUnit**, resulting in a **30%** reduction in testing time and increasing overall testing efficiency.
- Implemented comprehensive manual and smoke testing protocols, leading to a **25%** decrease in post-deployment issues and ensuring the reliability and stability of critical systems.
- Currently driving the development of a proof of concept into a fully-fledged system, leveraging **React** for frontend development and **MySQL** for backend data management using **Spring Boot**.
- Utilized **CRUD** operations and **APIs** to seamlessly integrate frontend and backend functionalities, resulting in a **50%** improvement in data processing speed and system responsiveness.
- Collaborated closely with cross-functional teams to ensure alignment with project objectives and timelines, facilitating a **20%** increase in development velocity and project delivery efficiency.

POINTCLICKCARE | Software Engineer Intern

Sep 2023 - Dec 2023 | Mississauga

- Automated testing using **TestNG** and **Selenium**, resulting in a **20%** reduction in testing time, enhancing development velocity.
- Managed project dependencies and built applications efficiently using **Maven**, ensuring seamless development and deployment processes.
- Fixed and closed **15%** more Jira tickets and user stories using **Java** and **Spring** compared to the team average, contributing to quicker issue resolution.
- Created and maintained page objects using **React** along with **HTML**, **CSS**, and **Bootstrap** for updating the product, streamlining the development process and reducing code duplication.
- Co-architected and developed multiple products enhancing their performance and user experience through frontend and backend development with **React**, **Java** and **PostgreSQL**, resulting in a **40%** reduction in reported bugs.
- Played a key role in creating and deploying a new pipeline using **Jenkins** to ease the workload on pre-existing pipelines, increasing overall team efficiency.

PAUL R. MACPHERSON INSTITUTE, MCMASTER UNIVERSITY | Project Assistant

Sep 2022 – April 2023 | Hamilton, On

- **Developed** and implemented an internal tool using Angular, utilizing the **pdjs-dist** and **xlsx packages** and improved team efficiency by **20%** based on weekly team performance analysis.
- **Managed** ticket requests and used feedback to continuously enhance program performance, resulting in **30%** improvement in the performance of the program based on the alpha stage of the program.
- **Created** comprehensive workflows, posters, and training modules to educate stakeholders and end users on program functionality
- **Maintained** and regularly updated the FAQ section, resulting in **30%** reduction in ticket requests
- **Optimized** pilot phase of the program, improving user experience by **40%** based on the feedback received through participants in a controlled environment.
- **Facilitated** the understanding of program functionality for non-technical stakeholders through visual aids and training materials.