Laiba Asif
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Professional Summary

Versatile Software Engineering student with strong experience across full-stack development, systems programming, DevOps automation, and cloud-native workflows. Demonstrates exceptional analytical, organizational, and communication skills through technical problem-solving, leadership roles, and collaborative project work. Adaptable, detail-oriented, and driven to contribute to innovative engineering teams by quickly mastering new tools, frameworks, and complex technical environments.

Education

ONTARIO TECH UNIVERSITY September 2022 - Present
Bachelor of Software Engineering and Management

Skills

Soft Skills: Strong analytical and observational abilities; excellent organizational and time-management skills; adaptable and quick to learn; effective communicator; experienced in coordinating projects and technical tasks; collaborative and reliable in team-based engineering environments.

Technical Skills

Programming Languages

- Python, Java, C, C++, JavaScript, HTML, CSS, SQL, Bash/Shell, Assembly, Lex & Yacc (Flex/Bison).

Frameworks & Libraries

- Django, Flask, React.js, Node.js, Bootstrap, Pandas, NumPy, JUnit, and Maven.

Database Management

- MySQL, MongoDB, SQLite, and CSV-based data processing.

DevOps & CI/CD Tools

- Git, GitHub, Jenkins, Helm, Kubernetes, Cron/Anacron scheduling, Makefile automation, CI/CD pipeline configuration, and deployment workflows.

Systems & Engineering Tools

- Ubuntu, Windows, Microsoft Office Suite (Excel, Word, PowerPoint), Visual Studio, PyCharm, Sublime Text, Git Bash, SolidWorks, Microsoft Visio, and Canva.

Languages: English, Urdu, and Hindi.

Work

START YOUTH PRESENTING ART - Stage Coordinator
3600 Kingston Rd, Scarborough, ON M1M 1R9 August 2018

❖ Organized rehearsals and coordinated with stagehands, technicians, and performers. Managed performance cues, props, and costumes for youth art festivals. Maintained administrative and financial records to support event operations.

ENGINEERING OUTREACH - Program Instructor
2000 Simcoe St N, Oshawa, ON L1G 0C5 August 2022
❖ Facilitated STEM-based indoor and outdoor programs for diverse youth groups. Promoted engagement, safety, and group cooperation through effective communication. Monitored participant behaviour, resolved conflicts, and ensured compliance with safety protocols.

Technical Projects

- **To-Do List Web Application**

Built a dynamic web app that allows users to add, edit, delete, mark complete, and prioritize tasks. Utilized HTML, CSS, JavaScript, and MySQL for full-stack functionality, with Bootstrap for responsive UI design.

- **Event Management System**

Designed a platform for planning events, searching venues, and calculating finances using an integrated tool. Developed using React.js, Node.js, and MySQL, enabling seamless front-end and server-side interactions with real-time updates.

- **Accessibility Navigation Platform**

Created a community-focused web app aligned with AODA guidelines, helping users locate accessible venues. Built with Django (backend) and Bootstrap (frontend), the system included user authentication, location-based search, and a rewards point-tracking system.

- **Smart Task Scheduler (Shell Automation Project)**

Developed a Bash-based task automation system using CRON and Anacron on Ubuntu. It included two scripts that parsed a config file and ran scheduled tasks with log-based error tracking—ideal for headless environments where email alerts are disabled.

- **CI/CD Pipeline for Binary Calculator**

Built and deployed a CI/CD pipeline using Jenkins, Helm, and Kubernetes on Google Cloud Platform to automate the build, test, and deploy stages for a binary calculator web app. Integrated with GitHub webhooks and Maven for source tracking and dependency management.

- **Machine Learning Evaluation System**

Enhanced a Java program to evaluate machine learning models on CSV input data, calculating metrics such as MSE, MAE, AUC, F1-score, BCE, and Confusion Matrix. Used Python frameworks (NumPy, Matplotlib, Pandas), Maven for project management, and JUnit for unit testing.

- **Data Signal Summation & Visualization Tool**

Created a Python program using NumPy and Matplotlib to sum and visualize multiple time-series signals. Tackled signal alignment, noise filtering, and interactive graph plotting to support research.

- **Hotel Database Query System**

Designed and executed advanced SQL queries involving JOINs, GROUP BY, and aggregates to extract guest details, booking history, and room availability across multiple normalized tables for a hotel management schema.

- **Commercial Scissor-Lift Design (CAD + Software Integration)**

Used SolidWorks to design a 3D mechanical model of a commercial scissor lift. Coordinated team efforts to simulate movement, create product specs, and develop a digital brochure. Though primarily mechanical, it involved digital modelling and presentation tools.

Reference Available Upon Request