Akshat Kapoor

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Work Experience

Software Developer Co-op Student May 2023 - December. 2023

Ontario Power Generation Oshawa, Ontario

- Developed an operational oversight web application using ASP.NET, C sharp, Angular, HTML, CSS, JavaScript, and Microsoft SQL Server, Azure Repos for real-time monitoring and decision-making
- Designed, coded, and implemented a program for early notification of dormant projects using Python, Microsoft SQL Server, and Excel VBA, significantly reducing project stagnation and improving resource allocation proficiency
- Developed a user-friendly Power App for the procedures team, simplifying the request process and improving task management efficiency
- Created and deployed Power BI dashboards, transforming data analysis and enabling faster, informed decision-making across departments
- Authored Project Charter for a major $10 million Main Control Room renovation project in a Nuclear Power Plant
- Prepared and delivered team safety presentation during dedicated team safety meetings

Education

Bachelor of Software Engineering (Hons), Faculty of Engineering and Applied Science 2020 - 2025

Ontario Tech University Oshawa, Ontario

Skills

Web Development: HTML, CSS, JavaScript, PHP, MySQL, Angular, ASP.Net, Node.js, SQL,

Languages: Python, C#, C++, Java, Perl, Shell Scripting in Linux

Office 365 Microsoft Office, Word, Excel, PowerPoint, Power apps, SharePoint, Power Bi

IDES: Visual Studio Code, NetBeans, IntelliJ, PyCharm, MySQL Workbench, Java Swing, Visual Paradigm

Soft Skills: leadership, communication, organization, presentation, multitasking, teamwork, oral and written skills

Projects

Digit Recognizer January 2024 - April 2024

- Developed a PyTorch-based neural network model to classify handwritten digits from the MNIST dataset, achieving 97% accuracy on the validation set
- Implemented a four-layer feedforward neural network architecture using machine learning methods and Python programming language
- Adjusted model settings and prepared the data, including data splitting, to optimize model performance
- Prepared a technical report documenting the model development process, results, and analysis

Next-Day Date Calculation: Java Test Case Design January 2023 - April 2023

- Developed a Java program using Junit for systematic testing to calculate the date of next day based on user input
- Implemented a suite of Junit test cases to validate the functionality and effectiveness of the code
- Utilized Java programming skills to create efficient solution for date calculation as per the user requirements
- Prepared a technical report documenting the detailed test case table, output of the code, and a thorough analysis of the test results

Camera Motion Sensor System January 2023 - April 2023

- Teamed up with 4 students to design a comprehensive software project management proposal
- Developed project plans, including risk assessment, budgeting, scheduling, and resource allocation
- Utilized Microsoft Project and Visual Paradigm to create and manage project schedules and activity diagrams
- Prepared technical documents outlining research, project phases, risks, and issues to support project objectives and documentation requirements

Course Registration Website October 2022 - December 2022

- Collaborated with a team of 4 students, delivering an on-time and successful project
- Designed a successful working university course registration website for students and Professors
- Designed using HTML, CSS, JavaScript, Bootstrap, PHP, and SQL
- Created a home page, sign-up and login page and a database to store and retrieve information