

Netra Mali

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Netra2104

NetraMali

EXPERIENCE

Dell Technologies | Software Engineer

Sept – Dec 2021

- Collaborated with the Radio Access Network (RAN) team for the development of the Dell 5G Technology project.
- Implemented a **C++** command-line program from ground up to handle database modifications and delivered 99% test covered code using **GoogleTest**.
- Developed **Python** scripts to remotely control Spectrum Analyzer device to then trace and plot the frequency using Matplotlib to detect irregularities.
- Investigated and documented encryption processes, showcasing **strong technical communication**.

Ansys | Software Developer

Jan – Apr 2021

- Automated Siebel CRM order processing in a **C# ASP.NET** application using **TypeScript** and **Rest APIs** to save the Sales team 90% of manual work.
- Modernized and Modularized **C#** services to convert order from Avangate online payment processing to multiple CRMs as per future demand.
- Developed a profile edit page using **Angular**, and **jQuery** for field validations and compliance screening while consistently following **Clarity** UI guidelines.

Achievers | Software Developer

May – Aug 2020

- Improved **RESTful API** endpoint's performance on the Employee Engagement Web platform by 98% through refactoring and identifying bottlenecks in code to allow onboarding of 300,000 users.
- Implemented reusable **React** components and front-end features and performed extensive unit testing using Jest to improve test coverage.
- Performed server-side development in **PHP** to extract and manipulate data from the database using the **MVC** framework and deploying using Docker.

APPS Transport Group | Software Developer

May – Aug 2019

- Designed and developed a web application using **C#**, **SQL**, and **.NET** to automate data extraction tasks and reduce report creation process by 75%.
- Optimized queries and scripts to decrease report runtime from 4 hours to 5 minutes minimizing accounting team report upload and download time.
- Troubleshooted Truckmate ERP software in **C#** to minimize defect backlog.

PROJECTS

WatEvent | React, Node.js, JavaScript, HTML, CSS

Aug 2021

- Developed a user-friendly website that allows university students to register, manage and attend club events using **React** and **MySQL** relational database.

PaintIt | Java

Nov 2020

- Utilized the **Model-View-Controller (MVC)** pattern to recreate Microsoft Paint using **JavaFX** with highly accurate hit-test and gesture detection.

Financial Forest | 1st Place 'Best use of Google API' at SheHacks IV

Jan 2020

- Implemented a credit score and expense tracker app using **Google Vision API** and **Node.js** for label detection to find amount paid from pictures of receipts.

Biquadris | C++ Object-Oriented Project

Dec 2019

- Developed a GUI Tetris game in **C++** using **OOP principles**, **MVC**, **Factory**, and **Observer** design pattern to maintain high cohesion and low coupling.
- Documented technical workflows and **UML** diagrams to create layouts and design the program's relationship allowing for a well-structured code.

SKILLS

Programming Languages

C++, Python, C#, C, Java, JavaScript, TypeScript, PHP, SQL, Bash

Tools and Technologies

Git, Angular, React, NodeJS, Docker, Jira, Confluence, Jenkins, Linux, Azure DevOps, JavaFX, HTML, CSS

Education

Candidate for Bachelor of Computer Science (4A), Software Engineering Specialization

University of Waterloo 2018 - 2023

- President's Scholarship of Distinction

Extra-Curriculars

- Comic Artist, MathSoc Society, 2021
- Grace Hopper 2020 Conference Participant
- TOHacks x Capital One Mentorship Program
- Piano, RCM Level 8
- Member of Women in Computer Science, University of Waterloo

Relevant Courses

- Artificial Intelligence (Python)
- Numerical Computation (Python)
- Database
- Networks (Python)
- Operating Systems (C)
- Object-Oriented Software Development (C++)
- Algorithms and Data Structures
- Statistics and Probability