

# Netra Mali

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NetraMali

## EXPERIENCE

### HashiCorp | Software Engineer (Back-End)

May 2022 – Present

- Currently working on the Terraform Cloud Web Experience team to deliver features using **Ruby on Rails** and **Go**.
- Plan to improve accessibility of the front-end application using **Ember**.

### Dell Technologies | Software Engineer (Back-End)

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, demonstrating **strong written communication** and **research skills**.

### 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

- Leveraged knowledge of **MySQL** relational database and **React** to create a website that allows university students to host and register for club events.

### Financial Forest | 1<sup>st</sup> 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**, and other **design patterns** to maintain high cohesion and low coupling.

## SKILLS

### Programming Languages

Ruby on Rails, Go, C++, Python, C#, C, Java, JavaScript, TypeScript, Ember, PHP, SQL, Bash

### Tools and Technologies

Git, Docker, Angular, React, NodeJS, 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

- Distributed Systems (C++)
- Computer Security and Privacy
- Artificial Intelligence (Python)
- Machine Learning (Python)
- Database
- Networks (Python)
- Object-Oriented Software Development (C++)
- Algorithms and Data Structures