

Vy Dao

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Education

Minnesota State University Moorhead (MSUM)

B.S. Computer Science, Summa Cum Laude (GPA: 3.98/4.00)

August 2018 - December 2020

Technical Skills

- **Programming Languages:** Java, Python, JavaScript, TypeScript, Go, C++, C#, SQL.
- **Frameworks and Databases:** React, React Native, Electron, NodeJS, .NET, MySQL, Amazon DynamoDB.
- **Tools:** Visual Studio Code, IntelliJ, Postman, Unix, Git, Scrum Agile Methodologies, JIRA, Confluence, OAuth2.
- **Cloud Based Technologies:** Amazon Web Services (AWS), S3, Lambda, CloudWatch, Amplify, Docker.

Experience

One Community Global Inc.

Software Engineering Volunteer

January 2021 - Present

(Remote) San Gabriel, CA

- Wrote automated unit-testing in React to improve team development workflow and reduce bugs.
- Designed and created different components in both Front-End and Back-End using JavaScript in React.

Doosan Bobcat

Software Engineer Intern, Digital Innovation Co-op

January 2020 - August 2020

Fargo, ND

- Designed and implemented an AWS IoT platform allowing multiple edge devices to collect and store office environment data in Amazon DynamoDB using AWS IoT Greengrass and Amazon FreeRTOS.
- Created S3 buckets to store software configurations and build a .NET application to increase the distribution process up to 30% to clients in different regions using Amazon CloudFront and OAuth2 Okta.
- Migrated REST APIs from JavaScript to TypeScript to increase performance and avoid feature bugs using Agile.
- Designed AWS CloudFormation templates using AWS SAM to create custom Amazon CloudWatch dashboards to monitor machinery performance and predict the failure rate in the feature.
- Build a video and image recognition Android application using Amazon Rekognition to reduce search time for machine parts on Bobcat's website by 70%.

Association for Computing Machinery (MSUM ACM)

Webmaster Volunteer

August 2019 - December 2019

Moorhead, MN

- Designed and maintained MSUM ACM web application using vanilla bootstrap on GitHub page.
- Worked with other members to bring local business speakers to provide students with future job opportunities.

Minnesota State University Moorhead

Building Manager

May 2018 - December 2019

Moorhead, MN

- Provided technical support and troubleshooting technologies with clients.
- Communicated with clients to organize and set-up special events, activities, and meetings.

Independent Projects

Werewolf Helper (React Native)

- A cross-platform application for iOS and Android using JavaScript, AWS Amplify to assist user with the game.

Food Delivery Web Application (Full-Stack)

- Creating a Full-Stack web application using HTML, CSS, JavaScript, AWS (S3, DynamoDB, APIs Gateway).

Raspberry Pi Puppy (AWS IoT)

- Designed a smart IoT Raspberry Pi robot that collect surrounding environment data to store them on the cloud.
- Implemented OpenCV in Python allowing the robot to track and follow a controller while avoiding obstacles.

COVID-19 Tracker

- An Android application that allows users to track COVID-19 cases from all the states in the U.S.

Awards & Achievements

- Computer Science Scholarship.
- Minnesota State University Moorhead Dean's List.

January 2019 – December 2020

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