

# Rosy Shrestha

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## EDUCATION

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**University of Michigan - Dearborn** Dearborn, MI  
Master of Science in Software Engineering April 2024

**Trinity International College** Nepal  
Bachelor of Science in Computer Science and Information Technology 2017  
*Recipient of the Trinity Scholar Award for high academic performance*

## WORK HISTORY

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**Fusemachines** Nepal  
Software Engineer September 2017 - May 2022

- Collaborated with 20+ engineers to develop an education platform and launched it in 8 schools with over 8000 students.
- Initiated a project-based learning program for interns, led and mentored a team of 5 frontend and backend developers in developing employee management software as part of the program.
- Designed an outreach tool, adopted by 35 customer success team members, resulting in improved sales outreach and a reduction of 90% in operation time.

**Fuse AI Education Program** Nepal  
Mentor October 2019 - June 2020

- Accelerated delivery of AI education programs by developing streamlined content creation strategies, producing 50+ educational videos, and successful program completion a month ahead of schedule for over 100 students.

## SKILLS

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- Languages: HTML, CSS, JavaScript, TypeScript, SQL, GraphQL
- Tools: React, NodeJS, NextJS, NestJS, Redux, MobX, React Native, Webpack, Bootstrap, Tailwind, Amazon Cognito, GitHub, PostgreSQL, MongoDB, Jenkins, TravisCI

## PROJECTS

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**Flo.io - an airport dining service**

- Rebuilt a legacy system to improve server response time with caching and GraphQL API in a microservice architecture.
- Transformed airport dining experience from restaurant tablets to mobile phones using Next.js, NestJS, and GraphQL.

**Fuseclassroom - an AI-enabled education platform**

- Digitized the learning process during the pandemic with features to conduct online classes and track assessments.
- Integrated with APIs to provide quick feedback on quizzes and exams to boost the productivity of students.

**Barkbox - a subscription-based e-commerce enterprise**

- Automated product assignments from excel sheet to the web app and reduced the manual work from 2 days to an hour.
- Provided real-time analytics and updates on the status of long-running Machine Learning models and tasks.

**Covid Nepal - an open-source information portal for Covid in Nepal**

- Developed a website as a reliable source for information on COVID and its care to an average of 17,000 daily visitors.
- Maintained the repository as open source and reviewed pull requests from open-source contributors.

**Frequent Pattern Mining on Web Log Data**

- Analyzed browsing data to find recurring patterns using the Frequent Pattern Growth algorithm in Python.
- Developed a Chrome extension to collect users' browsing data using React and MongoDB.

## ACTIVITIES

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**Society of Women Engineers** 2022 - Present

- Organize professional development and networking opportunities for women in STEM.

**Google Developer Student Club** 2022 - Present

- Collaborate with peers in Google Developer Student Club to work on technical projects, share knowledge, and organize workshops for students.