

# Ojash Gurung

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## EDUCATION

### Monroe University

Master's in Computer Science

New York

Expected Graduation, Sep 2026

- **Related Coursework:** Advanced Database, Artificial Intelligence, Operating Systems Design, Software System Design, Computer Architecture

### Coventry University

Bachelor's of Science in Computer Science (GPA-3.41)

Coventry, UK

March 2019 – Aug 2022

- **Related Coursework:** Python, Java, Data Structure and Algorithm, OOP, Modern Web Development with React.js and Node.js, ERD-Model, Kotlin (Android App Development), Agile Methodology, SQL Database, MongoDB, Neo4j, Docker, DevSecOps, IOT

## SKILLS

- **Languages:** Python, JavaScript, TypeScript, Java, C++, HTML/CSS, Kotlin, SQL
- **Frameworks:** React.js, Next.js, Spring Boot, Express.js, Flask, Django, REST-Framework, Tailwind CSS
- **Databases:** MySQL, MongoDB, PostgreSQL, Neo4j
- **Tools:** Git, GitHub, MongoDB Compass, Postman, Docker, MySQL Workbench, AWS
- **Platforms:** Linux, Windows, MacOS, Amazon EC2, Firebase
- **Soft Skills:** Agile Methodology, SCRUM, Waterfall, ERD Models, Use Case Diagram, User Stories

## PROJECTS

Real Chat | *React.js, Socket.io, MongoDB, Express.js, Node.js*

Dec 2023

- **Implemented real-time chat functionality** using **Socket.io and React.js**, solving concurrency issues by leveraging **websockets** for efficient bi-directional communication, ensuring seamless live messaging with features like **typing indicators and read receipts**
- **Implemented OAuth 2.0, Single Sign-On (SSO) with OIDC and SAML**, enabling seamless and secure authentication across multiple platforms, improving user convenience and enhancing access control

Bright Night | *Python, ML, TensorFlow, OpenCV2, g tts*

Mar 2021

- **Implemented an embedded system using Raspberry Pi and Google Coral TPU for real-time environmental detection**, optimizing hardware integration to achieve a **30% improvement in performance** and accuracy in obstacle detection.
- **Trained custom face recognition model** to recognize family members, enhancing the device's ability to provide **personalized sound notifications** and improve user interaction using google **gtts python package**
- **Conducted extensive user testing with 5 visually impaired participants**, gathering feedback and making iterative improvements

## WORK EXPERIENCE

### Troy University

Computer Lab Assistant (Part Time)

Troy, Alabama

Apr 2024 – May 2024

- **Led lab sessions for 100+ students** in the *Introduction to Programming with Python* course, providing guidance on coding concepts, debugging, and effective problem-solving techniques
- **Assisted students enrolled in CS-2250 - Computer Science I** with their final projects, offering technical support, debugging assistance, and feedback to improve project outcomes
- Installed and configured operating systems and software across **30+ computers** per semester, ensuring smooth lab operations for over **300 users**

### Coventry University

Teaching Assistant (Part Time)

Coventry, UK

Dec 2021 – April 2022

- **Graded weekly quizzes for 75+ students** in the *Developing the Modern Web* course (STW205CDE), evaluating knowledge in **React.js, REST, and Node.js**, and ensuring timely feedback to improve learning outcomes by **15%**
- **Provided one-on-one virtual support to 40+ students**, assisting with final assignment submissions, topic selection, and troubleshooting technical challenges, leading to a **95% project completion rate**