

AAYOG KOIRALA

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Summary

Aspiring software developer pursuing a Master's degree in Computer science with hands-on experience in various programming languages and projects. Seeking to leverage strong problem-solving skills, technical expertise, and full stack experience in a new role.

Skills

- **Languages:** C, C++, Python, Java, JavaScript, PHP, Prolog, SQL
- **Frameworks and Tools:** Laravel, Node.js, Flask, Angular, Docker, S3
- **Non-technical skills:** Logical thinking, mathematical analysis, proficient communication

Education

Miami University, Oxford, Ohio

M.S. Computer Science (Expected: May 2024)

Graduate Assistantship: Web Developer, PHP, Laravel

B.S. Computer Science (Graduated: Dec 2022)

Relevant Courses: Data Structures, Algorithms, OOP, Discrete Math, Software Engineering, Statistical Modeling, Systems Architecture, Web Services, Compiler Design, Machine Learning, Quantum Computing

Capstone: Project Lead for Library's Chatbot using Google Dialogflow and Node.js.

Projects

- *Dynamic CMS Website:* Developed a CMS website using Django REST Framework for a scalable and maintainable web application.
- *Fun with NLP:* Utilized Spacy for NLP to combine sentences and generate grammatically correct sentences.
- *Live Website API Development:* Developing a CRUD API using Node.js, MinIO, MongoDB, MySQL, and Docker.
- *User Interface Implementations:* Created user-friendly interfaces for a Tic Tac Toe game and a Calculator in Python using TKinter.
- *Award-Winning Python Script:* Won a local MLH-hosted hackathon at the University of Indianapolis in 2018 with a Python script that tracks eye movements to allow for scrolling on social media sites.

Experience

Software Developer

Miami University - Myaamia Center, Oxford, Ohio, United States **Jan 2023 - Present (Part-time, Hybrid)**

- Developed and maintained the EBDP portal, implementing new features and troubleshooting issues.
- Conducted code reviews and resolved bugs for the NBOL portal, contributing to a stable and reliable user experience.
- Managed the Stories of the Land website portal, proactively addressing technical issues to enhance user satisfaction.

Teaching Assistant

Miami University, Oxford, Ohio **Aug 2022 - Dec 2022 (OOP Course) / Feb 2021 - May 2021 (Software Engineering)**

- Tutored students in lab sessions, graded assignments, and guided students over Zoom sessions.

Healthcare Analytics Intern

Community Health Network, Indianapolis, Indiana **Jun 2021 - Jun 2022**

- Collaborated with Chief Analytics Officer and team to collect and analyze data for Network goals.
- Supported leadership and team members in the department of Analytics with administrative and coordinator duties.
- Handled confidential healthcare data, performed feature engineering, and created machine learning models using Azure ML.

IT Intern

Cummins Inc., Indianapolis, Indiana **May 2020 - July 2020**

- Selected for TechPoint Xtern (1 of 150) from an application pool of 1880 students from 212 Universities and 45 states. Placed at Cummins after interview from finalist pool.

Java Intern Developer

Nepdroid Innovations, Kathmandu, Nepal **Jan 2018 - Jun 2018**

- Completed 2 team-based production-ready projects using Java, JDBC, Spring framework, MVC architecture, security, and SQL.
- Performed code reviews based on defined standards and provided technical leadership for application development projects.