

Ryan Leonard

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OBJECTIVE

Secure an Internship/Co-op related to software engineering.

EDUCATION

Purdue University, West Lafayette, IN

December 2024

Bachelor of Science in Computer Science, Concentration in Software Engineering

GPA: 3.83

RELEVANT SKILLS

Machine Learning, Data Structures/Algorithms, HTML/CSS/JavaScript, Java/C/C++, MongoDB, React.JS, React Native, RESTful API Development, SCRUM development, full stack, SQL, python, .NET, MERN, Git, Linux/Unix, software testing, frontend, backend, software development, Amazon Web Services (AWS)

PROJECTS

Recipe Remix

Aug. 2023 - Dec. 2023

- Created a full stack recipe software project in order to make cooking simpler and faster for college students.
- Lead 6 person collaborative effort using React.js and a MongoDB database in order to create a streamlined and efficient development process.
- Implemented react/node/express elements and integrated Google and Recipe RESTful APIs into the project to create a system that was efficient and simple to work with.

Machine Learning in Motion

Jan. 2024 - Current

- Utilizing the power of machine learning to create a dynamic system that detects humans, shapes, and motion in 3D space.
- Crafting an accessible interface that can be utilized by all, breaking down barriers in the world of dance and artistic expression.

Fitness Tracker App (Personal Project)

Aug 2023 - Oct. 2023

- Developed this project as a way to create a better alternative to fitness tracking compared to what's currently available.
- Implemented the MongoDB database to store user data and workout model information.
- Designed React Contexts to auto populate frontend with new log entries that are also stored in the backend for each user.

Personal Portfolio Website (ryanleonard.co)

Apr. 2023 - Current

- Creating a React-based website to showcase past and current professional projects/interests.
- Built the website through self guided learning techniques in order to develop my skills in an unstructured, non-academic environment.

PROFESSIONAL WORK EXPERIENCE

Cognition and Learning Lab Programmer

May 2023 - Current

- Develop tests designed by Purdue Psychology Researchers so that they can be deployed for data collection.
- Performing software testing techniques and maintaining current code bases for lab websites and experiments in order to ensure that repositories are up to date.

Math Alliance Organization

Sept. 2022 - Current

- Creating updates to cascade web pages associated with Math Alliance in order to boost engagement and growth in the organization.
- Improving old page layouts/architecture using frontend languages and enhanced design techniques.

TEACHING/MENTORING EXPERIENCE

Undergraduate Teaching Assistant

Jan. 2023 - May 2023

- Guiding students towards higher understanding of course content by asking questions that encourage students to work through problems, in order to enhance students problem solving skills.
- Creating C programming labs to ensure course content is balanced yet challenging for students.

LEADERSHIP/COMMUNITY OUTREACH EXPERIENCE

Alpha Phi Omega - Alpha Gamma Chapter

Aug. 2023 - Current

- Volunteering in community and campus projects in order to benefit members of the on campus and adjacent Lafayette community.
- Training new members in the program by befriending them and guiding them towards doing community service in order to help them become active APO members.
- Organizing service related events such as campus clean ups and community outreach for new members to give them a sense of what our organization is about.