

Mason Pacenta

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Recent computer science and engineering graduate with a background in backend development and experiences with the most widely used coding languages, source control, and agile methodologies.

EDUCATION

The Ohio State University – College of Engineering
B.S. Computer Science and Engineering; Minor in Mathematics

Columbus, OH
May 2023

EXPERIENCE

Restaurant Safety Mobile Application
Backend Developer

Columbus, OH
Jan 2023 – May 2023

- Led a team of 3 backend developers in the development of a REST-compliant API utilizing Python and the Flask framework, facilitating seamless communication between the mobile app and backend server.
- Led the integration of Elasticsearch to deliver robust search functionality. Designing and executing complex queries to retrieve restaurant data such as location, safety, and cuisine.
- Collaborated closely with frontend development team to define project requirements, API endpoints, and debug entire project codebase to ensure final application quality.

The Ohio State University
Computer Science Teaching Assistant

Columbus, OH
Jan 2022 – May 2023

- Utilized expertise in C#, C, and computer operating systems to address student questions.
- Provided one-on-one support, guiding students through complex programming concepts to improve their academic performance.

Ohio State University's Reliability and Risk Laboratory
Research Assistant

Columbus, OH
May 2022 – Aug 2022

- Developed C-based automatic safety procedure software for a simulated full-scale nuclear reactor, establishing a versatile framework for future safety protocols and directly executing pivotal safety procedures. Proactively enhancing and maintaining existing codebase, resulting in significant performance improvements and operational efficiency gains for the reactor.
- Spearheaded the development and deployment of a middleman server to validate automatic procedures before execution on the simulated nuclear reactor preventing potential risks and ensuring reliable and secure reactor operations.
- Designed and implemented a console-interface for manual control and monitoring of automated procedures, enabling real-time status updates, reducing human error, and improving overall system usability.

TECHNICAL SKILLS

Languages: Java, C#, C, SQL, Python, HTML, JavaScript, Elasticsearch Query Language, GLSL
Frameworks: OpenGL, WebGL, .Net, REST, Flask, Vue.js