Michael **O'Connell**

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Education

University of Oregon
Bachelor's of Computer and Information Science

June 2018 - March 2021

• **Courses:** C/C++, Data Structures, Algorithms, Operating Systems, Artificial Intelligence, Computer Security

Professional Experience

IEQ Technology

Eugene, OR

Full Stack Web Developer - Web Development Team

March 2022 – Current

• Improved seven critical client applications across diverse technology stacks by optimizing performance, addressing issues, integrating new features, documenting processes, defining test criteria, providing development leadership, and adeptly managing competing priorities. Achieved consistent project timelines and budgets, resulting in highly satisfied clients.

• Improved API response times in a test-taking application from minutes to seconds or milliseconds by optimizing SQL stored procedures and database middleware, resulting in a smoother test taking experience for thousands of students and instructors.

• Built a customized drag-and-drop question type plugin for Moodle, facilitating drag-and-drop interactions for thousands of mobile users.

• Created a course searching and filtering feature that sped up client's data entry by up to 40%.

• Leveraged knowledge in ASP.NET (Web Forms, Web API) using C#, Moodle CMS using PHP, SQL (MSSQL, MySQL), JavaScript (Vue, Node, JQuery), Git, Bash, Unity, Java, HTML and CSS.

Palo Alto Software

Eugene, OR

Web Development Intern - Marketing Team

Aug 2021 – Dec 2021

• Created a script that automated WCAG compliance-checking and reporting by interfacing with various APIs. Reports allowed developers to quickly and efficiently remedy non-compliance issues for the entirety of Palo Alto's web ecosystem. Resulted in internship extension.

• Leveraged knowledge in Python, *Google Lighthouse API*, *W3C Markup Validation Service API*, PHP, Sass, Docker, Bash, Git, and JavaScript.

Skills

Languages: JavaScript, Python, C#
Technologies: HTML5, CSS3, React, SQL, ASP.NET, Git, Docker, Apache, NGINX, IIS

Projects

Empty Fridge

• AI-powered recipe idea generator that creates dynamic recipes based on ingredients and preferences.

• Built using React, NodeJS, TypeScript, Bootstrap, and NextJS as its full-stack framework. Open AI's Chat API is used for generating recipes. Unit testing is done using Jest. Deployed using AWS Amplify.

*All project repositories and live demos can be found at michaeloconnelliii.com