

# Michael O'Connell

michaeloconnelliii@gmail.com | 541-232-4654 | Forest Grove, OR |

michaeloconnelliii.com | github.com/michaeloconnelliii | linkedin.com/in/michaeloconnelliii

## Education

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### 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

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### IEQ Technology

Eugene, OR

Full Stack Web Developer - Web Development Team

March 2022 - Current

- Developed five standalone applications that automated data entry, formatting, migration, and SQL query generation. Resulted in saving over 500 hours and improving data entry efficiency.
- 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 Python, 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 over 50 webpages. Resulted in internship extension.
- Leveraged knowledge in Python, *Google Lighthouse API*, *W3C Markup Validation Service API*, PHP, Sass, Docker, Bash, Git, and JavaScript.

## Skills

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Languages: JavaScript, Python, C#

Technologies: HTML5, CSS3, React, SQL, ASP.NET, Git, Docker, Apache, NGINX, IIS

## Projects

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### 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](https://michaeloconnelliii.com)