

# Michael H. Tran

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Personal Portfolio: [mictran8500.github.io/portfolio](https://mictran8500.github.io/portfolio)

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## EDUCATION

### Bachelor of Science (BS) in Computer Science, GPA 3.93/4.0

09/2017 – Expected 03/2022

Portland State University, Portland, OR

**Academic Honors:** President's List (6 quarters), Dean's List (3 quarters)

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## SKILLS

### Programming Languages and Tools

C++, JavaScript, Vue.js, HTML, CSS/Bootstrap/Sass, Git & GitHub, Vim, Visual Studio Code, Jira, Linux.  
C, Node.js, Firebase, MongoDB NoSQL.

### Technical Skills

Agile & Plan Driven Development, Data structures, Object-Oriented Programming (OOP).  
Artificial Intelligence (AI) techniques, Quality Assurance (QA) methodologies, Website Accessibility (WCAG).

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## PROJECTS

### Teach Safely: Training Website – *Vue.js* / *AWS*

- Designed and implemented the interface for the administrative components of the web application.
- Collaborated with the back-end development team to implement administrative functionality through the use of AWS Lambda, Cognito, and DynamoDB.
- Implemented several UI components and functionalities throughout the application.
- Application will serve an estimate of 1000 teachers and 500 schools around Oregon, estimated to handle 500,000 class lessons annually.

### Food Themed Web Application – *JavaScript* / *Firebase* / *Yelp API*

- Created a full-stack web application that aids users in choosing a place to eat based on input criteria.

### Sudoku Solver – *C++*

- Tested the viability of using genetic algorithms to solve Sudoku puzzles.

### Freeway System Database – *MongoDB* / *GCP*

- Implemented aggregation pipeline queries in MongoDB for a freeway dataset.

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## WORK HISTORY

### QA Specialist

06/2021 – Present

CollegeNet, Portland, OR

- Experienced working with developers in a fast-paced Agile Environment to test and troubleshoot newly implemented features, as well as issues for their web application.
- Have written up hundreds of bug reports in Jira.
- Experienced with Web Content Accessibility (WCAG) documentation and testing.
- **The work contributed through QA testing has greatly improved the user experience and performance of the web application.**

### Senior Instructor

05/2015 – 06/2019

Kumon, Aloha, OR

- Mentored students in mathematics up to the Calculus level. Database entry.