

# Antonio Lu

🌐 [antonio-lu.github.io/About-Me/](https://antonio-lu.github.io/About-Me/)

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## EDUCATION

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OREGON INSTITUTE OF TECHNOLOGY

3.82 GPA

*Bachelor of Science, Major in Software Engineering*

2020 - 2024

**Relevant Coursework:** Advanced .NET, Machine Learning, Software Design Patterns, Database Systems and Designs, Data Structures, GUI Programming, Engineering for Quality Software, Engineering Management, OOP with C++

## EXPERIENCE

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MICROCHIP TECHNOLOGY

GRESHAM, OR

**Full Stack Software Engineer Intern**

April 2022 – October 2023

- Primary developer of a dynamic web application, granting the manufacturing team autonomy in configuring their data entry and display pages. Resulted in 95% reduction in turnaround time for frequent updates, significantly accelerating engineering and manufacturing operations
- Designed and maintained SQL Server databases for 3 separate applications with SSMS
- Implemented RESTful API endpoints to facilitate seamless communication with other internal projects, enhancing interoperability within the company ecosystem
- Incorporate Agile by utilizing Azure DevOps for sprint planning and team collaboration
- Provided support and guidance to new interns by setting up meetings to help facilitate onboarding process, integrate into new projects, address concerns and provide feedback

## PROJECT

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**Ticket Tracker**

- Designed and implemented Ticket Tracker application independently within 12 weeks
- Integrated Seatgeek API to track ticket prices of over 500 concerts, efficiently fetching pricing information and storing it in an AWS RDS MySQL database using Entity Framework
- Utilized Docker and AWS ECR to containerize the application, and AWS Lambda to automate and streamline data retrieval process, ensuring real-time event pricing information every four hours
- Developed an aesthetically pleasing and intuitive dynamic web application with ASP.NET MVC
- Employed SOLID principles, Unit of Work pattern, MVC pattern, and Repository pattern to ensure maintainability, scalability, and code quality

## SKILLS

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Languages: C#, C++, C, JavaScript, Python, HTML/CSS

Technologies: SQL Server, MySQL, jQuery, Docker, ASP.NET MVC, Entity Framework, Azure DevOps, AWS (Lambda, RDS, ECR, ECS, CloudWatch), LINQ, Bootstrap

Spoken Language: English and Chinese

## CERTIFICATIONS

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**JavaScript Algorithm and Data Structures**

FreeCodeCamp.org

**Responsive Web Design**

FreeCodeCamp.org