Antonio Lu

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EDUCATION

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

MICROCHIP TECHNOLOGY   **GRESHAM, OR**
Full Stack Software Engineer Intern   **March 2022 – November 2023**
- Primary developer of a C# web application that granted 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 REST 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

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

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, Blazor
Spoken Language: English and Chinese

CERTIFICATIONS

JavaScript Algorithm and Data Structures   **Responsive Web Design**
FreeCodeCamp.org   FreeCodeCamp.org