Michael Doherty

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EDUCATION

Southern Methodist University   Dallas, TX
Bachelor of Science in Computer Science   *Aug. 2020 – May 2024*
Specialization in Artificial Intelligence and Machine Learning   *GPA: 3.977/4.0*

Relevant Coursework: Data Structures, Algorithms, GUI, Database Concepts, Software Engineering, Artificial Intelligence, Machine Learning, Natural Language Processing, Computer Graphics, CS50 Intro to Artificial Intelligence

EXPERIENCE

Software Engineer Intern   June 2023 – Present
Ethos Group   *Irving, TX | Remote*
- Regularly implemented features in **Angular** and **ASP.NET Core**, utilizing **CI/CD** pipelines for integration
- Participated in a daily standup as part of a **Scrum/Agile** environment with a team of 8 Software Engineers
- Enhanced client's data analysis capabilities by implementing advanced features for video transcription analysis
- Improved code quality through writing unit tests with **xUnit** and reviewing co-workers' pull requests

Grader   Jan. 2022 – Dec. 2022
Southern Methodist University   *Dallas, TX*
- Graded assignments for CS 2353 Discrete Computational Structures courses
- Improved student learning outcomes by providing timely and valuable feedback

PROJECTS

Laudatio | *Angular, Bootstrap, ASP.NET Core, Entity Framework Core, MySQL* 🎮   June 2023 – Aug. 2023
- Developed a web app that allows users to recognize and praise their co-workers in a virtual work environment
- Employed **ASP.NET Core** to serve a REST API and **Angular** to create a user-friendly UI
- Utilized **MVC architecture** to create a maintainable and scalable codebase
- Leveraged **JSON Web Tokens** for user authentication and **Docker** for deployment to the web

DoughBack | *React, Bootstrap/React Bootstrap, Express.js, Node.js, MySQL* 🎮   Feb. 2023 – April 2023
- Created a web app for companies to reimburse their employees for company expenses
- Led a team of 6 using **Agile** and **Scrum** techniques over 5 sprints
- Employed **Node.js** and **Express.js** to develop RESTful APIs with **React** as the frontend
- Implemented core features including user registration, user authentication, and reimbursement management

Search Engine | *C++, RapidJSON* 🎮   Nov. 2021 – Dec. 2021
- Created a search engine that accepts simple Boolean queries such as AND, OR, and NOT through a terminal UI
- Analyzed over **300,000** JSON files using term frequency to find the most relevant results for the user
- Achieved data parsing and processing efficiency that was within the top **10%** of a class of **100** students
- Implemented a custom, templated AVL tree class and Hash table class

Sudoku Solver | *Python* 🎮   Nov. 2021 – Dec. 2021
- Built a program that can solve any Sudoku puzzle by utilizing a **backtracking algorithm**
- Implemented a user-friendly UI using PyGame

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, HTML, CSS, JavaScript, TypeScript, SQL, Arm Assembly
Frameworks: React, Angular, Express.js, Node.js, Knex.js, ASP.NET Core, Entity Framework Core, Flask, Bootstrap, Material-UI
Developer Tools: Git, Docker, GitHub, Azure DevOps, VS Code, Visual Studio, AWS, Vercel, Railway
Libraries: NumPy, NLTK, xUnit, Pandas, Scikit-Learn, Matplotlib, TensorFlow
Databases:: MySQL, SQL Server