

Kyle J. Coon

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science

Bachelor of Science in Film, Television, and Media

GPA: 3.64 / 4.00

Ann Arbor, MI

May 2024

WORK EXPERIENCE

Software Engineer

June 2024 - Present

My Music Bridge

- Designed and implemented a robust suite of automated backend tests using JavaScript and Jest, ensuring seamless validation of multi-platform application features and improving deployment reliability
- Built a simulated demo environment with a NoSQL database, utilizing custom dummy data to reflect real user scenarios and strengthen client presentations for business development
- Partnered with technical and creative directors to analyze CI/CD workflows, proposing solutions for critical implementation issues that enhanced system architecture and stability

PROJECTS

How's The Market

November 2024

React, JavaScript, Express, AWS, Python

[Website](#) | [GitHub](#)

- Designed custom Python web scraper to collect and organize 500-800 daily job postings from LinkedIn
- Developed full-stack web app using React and a Node.js backend API to analyze and visualize job market trends
- Deployed on an AWS EC2 instance with a custom domain using Amazon Route 53 for seamless accessibility

The Story of Draden

May 2024

C#, Unity, Scripting, Git

[itch.io](#) | [Trailer](#)

- Created a collaborative Unity-based real-time-strategy game, leveraging C# scripting for gameplay features
- Implemented intuitive player controls, abilities, and upgrade systems through a custom user interface
- Conducted iterative playtesting to ensure user-centric design, refining gameplay based on feedback

Chess Digitizer

December 2023

Python, NumPy, Machine Learning

[Report](#) | [GitHub](#)

- Engineered a Python-based solution to translate images of physical chessboards into digital board representations
- Developed a custom convolutional neural network, trained on hundreds of images, to achieve ~90% accuracy
- Published a comprehensive analysis report detailing project results and technical implementation

SKILLS

Languages: Java, Python, JavaScript, C/C++, C#, SQL

Frameworks & Tools: Spring Boot, React, Node.js, Jest, Git, Docker, MongoDB

Development Practices: Agile, CI/CD, Test-Driven Development, Object-Oriented Programming, RESTful API Design

Platforms: Linux, Windows, AWS (EC2, S3, Route 53)

LEADERSHIP

University of Michigan Men's Glee Club - Vice President

The Friars A Cappella - President