

JOSHUA MASTERS

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SUMMARY

Recent Computer Science graduate with a passion for AI and web development. Proven experience in building full-stack applications and machine learning models. Seeking a challenging software development role where I can apply my skills to solve complex problems and drive innovation.

SKILLS

Java, JavaScript, HTML/CSS, C++, Python, SQL
React, Express.js, Socket.IO, Node.js, MongoDB
Git, GitHub, Docker, Heroku, PlantUML
Markdown, SSMS (SQL), Kafka, APIs, Spring
Agile, Scrum, Jira, Microservices, Machine Learning, Data Science, Artificial Intelligence

PROJECTS

Financial Exchange Application

Dr. Nicholas Stiffler (Capstone 2) • [ud-cps491-24s-team.github.io/Team02-FinancialExchange-Public/](https://github.com/ud-cps491-24s-team/Team02-FinancialExchange-Public/) • January 2024 - April 2024

- Collaboratively developed an event-driven, microservice-based financial exchange application ensuring fair, fast, and reliable client transactions.
- Leveraged React for a dynamic frontend and Spring Boot for a robust backend.
- Integrated Kafka for real-time data streaming and MongoDB for persistent storage.
- Containerized services with Docker for streamlined deployment.
- Used JIRA for Agile project management and fostered team collaboration.
- Maintained comprehensive project documentation using Draw.io, Markdown, and PlantUML.

Messenger Application

Dr. Nicholas Stiffler (Capstone 1) • horizon-messenger-00d0292d47co.herokuapp.com/ • September 2023 - December 2023

- Collaboratively designed and developed a real-time peer-to-peer (P2P) messenger application, enabling seamless communication between users.
- Built a scalable, real-time messaging backend using Node.js, Express, and Socket.IO, with MongoDB for data storage and Heroku.
- Employed Agile/Scrum methodologies and Git for collaborative development.
- Employed JIRA for effective task tracking, sprint planning, and progress monitoring, ensuring project transparency and timely delivery.

Detecting Fake News with ML

Dr. Bayley King (Data Science) • github.com/mastersj5/fake-news-detection • January 2023 - May 2023

- Developed a fake news classifier achieving [0.7000] accuracy, utilizing a TensorFlow neural network model and NLP techniques.
- Preprocessed and analyzed a Kaggle dataset of news articles, employing techniques like tokenization, lemmatization, and stop word removal.
- Leveraged TensorFlow Hub's pre-trained word embeddings for efficient text representation.
- Evaluated model performance with metrics like accuracy, precision, recall, and F1-score, and identified areas for improvement using a confusion matrix.

EXPERIENCE

College Intern

Ohio Department of Transportation July 2023 - August 2024, Columbus, OH

- Provided technical support and troubleshooting for the Civil Rights & Labor Construction Contracting System, resolving 200+ user inquiries.
- Leveraged SQL Server Management Studio to efficiently query and extract data from large databases, improving data accessibility for decision-making.
- Assisted in maintaining and updating system documentation, ensuring accuracy and clarity for users.

Student Technology Summer Intern

Kenston Technology Department May 2016 - August 2020, Bainbridge, OH

- Provided on-site technical support, troubleshooting hardware and software issues to minimize classroom disruptions and maximize technology uptime.
- Implemented and maintained an inventory management system for tracking technology assets, increasing accountability and streamlining equipment allocation.
- Led a team of 5 student technicians, fostering a collaborative environment and delegating tasks effectively to ensure timely resolution of technical issues.

EDUCATION

B.S. Computer Science

Minor in Music • University of Dayton • Dayton, OH • 2024 • 3.57

- Concentration: Artificial Intelligence/Data Science