

Jack Italiano

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TECHNICAL SKILLS

Languages: Python, JavaScript/Node.js, Java, C++, C#

Technologies: AWS, Terraform, React, LLMs with Python, Git, Linux, Firebase

Certifications: AWS Certified Cloud Practitioner

EDUCATION

The Ohio State University – BS Computer Science and Engineering, 2024 3.52 GPA

- Coursework in Operating Systems, Networking, Compilers/Interpreters, AI, Data Management in the Cloud, etc.
- Artificial Intelligence Club, Competitive Programming Club, active Hackathon participant
- Leadership roles: Pi Lambda Phi Fraternity – Professional Development Lead, Website Coordinator, Associate Risk Manager, Community Involvement

Elgin Community College / Jacobs High School, 2019-2021 4.00 GPA

- 62 Credits concurrent with High School Degree
- Graduated Salutatorian out of 566 classmates
- Lacrosse, Football, Cross Country

PROFESSIONAL EXPERIENCE

NASA – Software Engineer for AI and Biomimicry (Jan 2024 - May 2024)

- Contributing to the development of an AI Aerospace Design Tool at NASA, utilizing LLMs like GPT-4
- Applying broad programming skills to a diverse project exploring biology, data science, and design.
- Optimizing GPT-4 integration as a natural interface for engineers, improving language capabilities and features

State Farm – Software Engineering Intern (May - Aug 2023, and Sept - Dec 2023)

- Migrated on-premises services to the cloud with extensive use of AWS, Node.js, Terraform, and React
- Amplified throughput, resiliency, and security of existing cloud services
- Communicated across teams to plan and ensure we met business and technical requirements
- Distinguished participation in company-wide Hack Day and AWS Deep Racer competitions

Holocron Technologies – Software Developer (Sept - Dec 2022)

- Research and Development of new NLP and Computer Vision technologies in the Open-Source Intelligence field
- Developed an ABSA tool to improve recognition of entities and their sentiments across texts, sources, events, etc.

PROJECTS

See GitHub for more information.

Stack Farm – Internal Stack Overflow at State Farm’s Hack Day competition (2023)

- Developed Stack Overflow for internal use where employees can post questions containing internal information
- AWS RDS, Node.js, React, Flask, PostgreSQL

Audio Studio Code – 5th place overall at The Ohio State University Hack OH/IO competition (2022)

- Developed a context-based speech-to-code IDE from the ground up to convert natural language to code using speech recognition, context free grammars, recursive decent parsing, and a custom-built IDE
- Python, Google Speech Recognition API, Firebase Realtime Database, Tkinter
- Achieved 5th place among 1,000+ participants, including graduate and PhD level students

AI Driver Distraction Detection – 3rd place at The Ohio State University Make OH/IO competition (2022)

- Developed AI system to detect driver distractions through facial recognition and eye detection and switch to autonomous driving when necessary
- Python, OpenCV, Arduino, Electrical components (motors, sensors, arduinos, breadboards)
- Attained 3rd place among 80+ participants, including graduate level students