TYLER CONGER

✉ Tyler-Conger@Tyler-Conger.com | 📞 (949)793-0595 | 🔗 linkedin.com/in/tyler-conger/ | ⚲ tyler-conger.com

EDUCATION

University of Alabama — Tuscaloosa, AL
Master of Science in Computer Science — May 2024
- **Notable Courses:** Autonomous Vehicles, Data Science, Machine Learning, Computer Security
- Cybersecurity - SQL injection, network protection, man-in-the-middle attacks, and cross-site-scripting (XSS)
- Artificial Intelligence / Machine Learning (AI/ML) - Using tools Numpy, Scikit, Keras, Pandas, and PyTorch

Northern Arizona University (NAU) — Flagstaff, AZ
Bachelor of Science in Computer Science — May 2021
- Minors in Mathematics and History
- **Notable Courses:** Data Analysis, Database Systems, Network Analysis, Advanced Web Development

EXPERIENCE

Marsh McLennan | Software Developer — Phoenix, AZ | July 2021 - Aug 2022
- Developed full-stack web applications, in the insurance sector, generating millions of revenue for customers such as Tesla, Amazon, Polestar, Liberty Mutual, and others
- Identified and fixed security vulnerabilities for over 1,000 libraries on multiple live applications using Snyk
- Implemented unit testing for code verification and validation, leveraging tools such as DataDog and SonarQube
- Wrote Python scripts for Continuous Integration/Continuous Deployment (CI/CD) pipeline with Jenkins
- Utilized tools such as TypeScript, React, Angular, Tailwind CSS, NodeJS, and SQL
- Spearheaded team initiatives improving product quality by implementing WCAG guidelines and test practices

NAU School of Informatics | Research Intern — Flagstaff, AZ | Jan 2020 - Dec 2020
- Designed and implemented interactive AI chatbots researching natural language processing for customer service applications; collected customer conversation flow data leading to improved chatbot interaction
- Leveraged IBM Watson AI bot architecture on tourism site created with PHP, HTML, and JavaScript
- Developed Python scripts for task automation, data analytics, and data automation/wrangling

College of Engineering | Teaching Assistant — Flagstaff, AZ | Aug 2019 - Dec 2020
- Led object-oriented programming lab classes, and individually tutored data structures in Java

SKILLS

Programming Languages:	Python, C, Java, JavaScript, TypeScript, R, MySQL, SQL, PHP, Kotlin, HTML, Bash
Libraries / Frameworks:	React, Angular, Next.js, ROS, Tailwind CSS, NodeJS, Pandas, Bootstrap, Keras, Tensorflow
Tools / Platforms:	Docker, VirtualBox, Command-line, Linux, Shell, Git, AWS, JIRA, LaTeX, Jenkins

PROJECTS

Self-Driving Vehicle — *ROS, Python, C, C++*
- Built from ground up, fully autonomous vehicle for the evGrand Prix ⚲, a collegiate competition
- Student team constructed all hardware including vehicle structure, propulsion, and electrical wiring
- Developed software architecture including computer vision, vehicle navigation, obstacle avoidance/detection, imitation machine learning (ML) techniques, and remote safety override
- Team lead for a software system to digest 300,000 LiDAR points per second and create real time vehicle navigation path, identifying roadway bounds and obstacles, using Python running ROS

COVID Testing Efficiency Application ⚲ — *Python, TypeScript, React, SQL*
- Led scrum team in the development of full-stack application used by healthcare professionals to increase efficiency of COVID testing for large populations
- Client-side application with easy to use UI for both mobile and web (Ionic, React, JavaScript, JSON, Next.js)
- Architected application back-end including use of Django with a REST API
- Deployed application runs on AWS cloud (EC2 Instance) with MongoDB using SQL for database support

Operating System Simulator — *C*
- Designed and programmed a pseudo OS; technical challenge was develop a multi-threaded system, from the ground up supporting real time operation, entirely written in C, without the use of any libraries

MILESTONES AND ACHIEVEMENTS

Machine Learning Image Processing ⚲ - Survey of ML algorithms and image processing techniques in the context of self-driving vehicles, facial recognition, and OCR applications

Network Standards Research ⚲ - Understand the performance impact of widely utilized construction materials on internet protocols; TCP, FTPS, and HTTP

Agile Certified (ICP) - Issued by the International Consortium for Agile, June 2022

Engineering Symposium Presentation ⚲ - Presented COVID testing app and widespread professional use

Internship Presentation ⚲ - Analysis of user experience data collected from deployed conversational AI chatbots

ACM President - President of the Association for Computing Machinery (ACM) NAU Chapter

Presidential Leadership Fellow ⚲ - Nominated and selected as university leadership representative (2019-2020)

Peer Jacks - STEM Mentor; guided first year students on adapting to college life (Academically and Socially)