Jeremy Yao

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EDUCATION

The Ohio State University   Columbus, OH
B.S. Computer Science Engineering   Graduation: May 2023
Overall GPA (4.00 scale): 3.989

SKILLS/OTHERS

- Programing languages/frameworks: Typescript, React, C, Python, C++, SQL, Java, TensorFlow/Keras, Ruby, C#, HTML/CSS/JavaScript, x-86 assembly, MATLAB, PowerShell

RELEVANT EXPERIENCE

Associate Software Engineer, Pathways   (July 2023 – Current)
Northrop Grumman | Baltimore, MD
- Independently research and implement pulse deinterleaving and signal processing algorithms for electronic warfare applications in a team of ten for potential future Northrop program applications
- Utilize relevant knowledge of Python, TensorFlow/Keras, and C++ for algorithm implementations
- Collaborate on development of an integral Python testing suite to streamline and establish clear development processes, standards, and pipelines for current and future team members
- Created and integrated a C++ radar pulse generation tool and a Python deinterleaving evaluation system into the testing suite, speeding up development and standardizing performance metrics for the entire team

Software Developer Intern   (May 2022 – July 2023)
IGS Energy | Dublin, Ohio
- Collaborated in the agile development of the Solar 360 .NET web application for IGS's Residential Solar Sales Team by addressing frontend and backend needs/issues, ensuring sale flows are well-optimized and productive
- Rewrote Angular webpages to Typescript React to be pushed into production in coordination with the product manager, product designer, and lead developer for the sales team to utilize on a daily-basis
- Created Jest and React Testing Library tests for completed React pages and Postman backend endpoint tests, ensuring product standards and behaviors are met for current and future iterations
- Mentored newer interns developing their technical and soft skills, helping them integrate with the team

IT Intern   (October 2021 – May 2022)
MA Design | Grandview Heights, Ohio
- Facilitated IT functions, including automation and system setup, in coordination with the IT administrator
- Deployed PowerShell scripts [8+ developed] automating tasks and applications via Microsoft Endpoint
- Provided technical assistance and troubleshooting for employees through professional and friendly interactions

Foundations II: Data Structures and Algorithms Grader   (September 2021 – December 2021)
The Ohio State University | Columbus, OH
- Interacted with students in a helpful, positive manner that meets the need of the course content
- Collaborated with course instructor with administrative duties, grading, and other related needs
- Hosted office hours for students to reinforce concepts, ensuring a thought-provoking environment

PROJECT EXPERIENCE

Peer Evaluation Web Application   (December 2021)
- Built a Ruby on Rails peer evaluation web application in a team of four, allowing teachers and TAs to manage courses, teams, and projects ensuring student feedback for team cohesion and improvement
- Streamlined UX via implementation of authentication, admin consoles, and multiple team/project structures
- Applied relevant knowledge of Git, Ruby, related HTTPS methods, HTML/CSS, and object-oriented design

The Ohio State Baja Buckeyes SAE Team   (January 2020 – September 2020)
- Presented and developed a test plan for a continuously variable transmission (CVT) for optimizing the shifting properties of a vehicle's transmission, improving vehicle performance and drivetrain efficiency
- Developed CAD components and Arduino code for a dynamometer to aid with data acquisition and tuning