Yuki Zheng

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EDUCATION

BS/MS Computer Science, Math Minor, University of Oklahoma   Norman, Ok
Expected Graduation: **May 2025 BS, May 2026 MS** | GPA: 3.55

EXPERIENCE

Active Secret Security Clearance

Tinker Airforce Base, 76ᵗʰ SWEG/MXDES – *Computer Science Intern*   May 2024 — August 2024
- Tackled server/client application with robust front- and backend communication handling data propagation with Python, JavaScript, and HTML
- Implemented a platform virtualization project involving data extraction, parsing, and conversion
- Documented standard code requirements and bug replication while executing formal test procedures to ensure software quality

Northrop Grumman – *Software Engineering Intern*   May 2023 — July 2023
- Spearheaded firmware and API development using **C** for 2 unique I/O devices
- Implemented **agile methodologies**, project planning, and led daily, productive **scrum** meetings
- Adept in conducting simulation-based testing, developing Built-in-Tests (BITs), and leveraging software tools such as the **Atlassian suite** for agile project management

Honors Research Assistant Program – *AirLab*   Sept. 2022 — May 2023
- Investigated point cloud generation with depth cameras and multi-modal sensor fusion
- Conducted research for autonomous vehicles, focusing on optimizing visual SLAM practices using computer vision and loop closure techniques
- Competent in **ROS** (Robot Operating System) for robotics development, experienced with **GitHub** version control and **Linux** terminal navigation

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LEADERSHIP

Sooner Rover Team - *Autonomous Member, Publicity Coordinator*   Aug. 2021 — Present
- Implementing and optimizing autonomous navigation subsystems for a modular Mars rover
- Creating quality videos for team competition submissions, fundraising, and promotional events
- Maintaining team online presence through various professional and social platforms
- Coordinating team merchandise for a 50+ member team; managing $300-$700 orders

Society of Asian Scientists and Engineers (SASE) – *Vice President Internal*   Aug. 2023 — Present
- Managing organizational responsibilities and ensuring efficient execution of key initiatives
- Engaging with and securing corporate sponsorships and industry collaborators

Girls Who Code (GWC) - *Co-Founder and President*   March 2023 — Present
- Co-founded the first GWC college loop in the state of Oklahoma

Additional On-Campus Mentorship Involvement   October 2021 — Present
- Halliburton Women's Welcome (Mentor), Freshman Engineering Pathways (Mentor), Girls Learning and Applying Math and Science (Volunteer), D&I ME^2 (Mentor)

Society of Women Engineers (SWE) – *Publicity Chair*   March 2023 — May 2024

ADDITIONAL

Languages: Java, Python, C++, C, XML, HTML/CSS, C#, Ada, JavaScript, R
Tools: Linux (Ubuntu), GitHub, Jira, Confluence, BitBucket, Visual Studio Code
Certifications: Adobe Certified (Photoshop, Premiere Pro, and Multimedia)
Soft Skills: Interdisciplinary Team Collaboration; Problem Solving; Leadership and Mentorship
Relevant Courses: Visual Navigation for Autonomous Vehicles, Data Structures, Computer Organization, Programming Structures/Abstractions, Computer Security, Data Networks