Justin Angara

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A Curious Systems & Full-Stack Developer

justinangara.github.io/personal-website/
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EDUCATION

University of Wisconsin-Madison **May 2027**
Bachelor of Science, Double Major in Computer Science and Economics
- Pi Kappa Phi Fraternity Recruitment Chair: Organized social events for 1000+ underclassmen students.

QuickStart (formerly Promineo Tech) Software Engineering Bootcamp **Graduated**

WORK EXPERIENCE

Network Software Engineer Contractor **May 2025 – Present**
Leading 5G Infrastructure Industry Client Remote – Chicago, IL
- Designed Python tools that parse 10,000 network configuration files, cutting other processing tools by 70%.
- Analyzed telecom parameters (e.g., NRCELL, cellBwpList) to support internal data of over 7,000 IDs.
- Engineered GPT documentation bots for technical explanations, improving communications across domains.
- Built an interactive algorithm that displays over 100+ potential network sites to discover over 20+ dead zones.
- View some of the UI friendly tools: justinangara.github.io/xml-parser/

AI & Prototyping Engineer - Innovation & Venture Fellowship **June 2025 – August 2025**
UW Tech Exploration Lab Hybrid – Madison, WI
- Planned AR/CV stacks (OpenCV & Unity) for vehicle condition detection to optimize business workflows.
- Conducted 2 user interviews and mapped the rental workflow to validate the demand for AR conditions.
- Built low-fidelity AI-assisted AR check-in flow demos and tested 3+ use cases for precise damaged spotting.
- Delivered final demo + memo evaluating options (i.e., partners/departments) to obtain potential partnerships.

Front-End Software Engineering Internship **October 2022 – January 2023**
Comet Remote – Santa Clara, CA
- Selected as Intern of the Week (Top 7%) for initiative during the software delivery cycle.
- Contributed to 5+ projects across engineering, business design, and marketing, reaching over 500 users.
- Contributed to website features and UI improvements that optimized runtime speeds by 114%.

PROJECTS

Kernel-level Windows Game State Analysis & Memory Protection System **June 2025 – Present**
C/C++, Ring-0 Programming, Windows Kernel Development, SSDT Hooking
github.com/JustinAngara/Kernel-based-Windows-State-System
- Architected a kernel driver to intercept & analyze system memory across 10+ games, achieving latency < 1ms.
- Engineered memory virtualization layers via SSDT hooking to create isolated sandboxes, enabling live analysis.
- Developed a memory scanner to traverse 10,000 memory structures to scan corrupted vectors/buffer overflows.

Autonomous Multi-Model Desktop Automation w/ Low-Level OS Integration **July 2025 – August 2025**
C++, Java GUI Interface, Kernel Hooks, Low-Level Multithreading, Multi-LLM Configurations
github.com/JustinAngara/SysOps
- Architected a cross-language desktop AI automation framework in Java (frontend) and C++ (core functionality).
- Executed multi-step OS tasks, reducing task completion time by 40%, compared to screenshot-based agents.
- Developed a (<50ms per iteration) low-latency system, leveraging native OS APIs and kernel-adjacent hooks.

Full-stack & Low-level Anti-Cheat for Online Exams: Defensive & Offensive Testing **May 2025 – June 2025**
Java, C, React TS, Springboot, OpenAI Integration, Reverse Engineering, Low-level System Integration
www.youtube.com/shorts/G9aQb5mFjbo | github.com/JustinAngara/Whitehat-Hacking-Honorlock
- Monitored over 100 processes in the background for process injection and GDI-level manipulation techniques.
- Created 15+ evasion methods (DLL injection, memory patching, GUI hooks), achieving a 96% bypass rate.
- Implemented a React front-end with a WebSocket-based monitoring system with automated system checks.

SKILLS

Languages: C/C++, Java, JavaScript/TypeScript, Python
Technologies: AWS, ReactJS, Springboot, Flask, MongoDB, MySQL, RESTful API & WebSocket usage
Concepts: Database Theory & Security, Git, Image Processing, Computer Vision, Process Injection