Justin Angara
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SUMMARY

Systems-focused developer passionate about reverse-engineering and automation.

EDUCATION

University of Wisconsin-Madison **December 2027**
Bachelor of Science, Double Major in Computer Science and Economics
- Pi Kappa Phi Recruitment Chair
  - Organized social events for 900+ students for our social events (10% of the Class of 2028).

PROJECTS

Honorlock Proctoring – System Limitations & User Exploitability Research **May 2025 – Present**
React TS, Springboot, Java, Whitehat Hacking, Low-level System Integration
https://github.com/JustinAngara/Whitehat-Hacking-Honorlock
- Simulated online exam environments with spoofed window handles, achieving 90% mimicry accuracy.
- Mimicked live user input via SendInput and FindWindowA with 100% evasion in manual detection.
- Built WebSocket-powered control relay for remote input injection with ~200ms latency.

Real-Time Vision-Based Target Detection & Autofire System **November 2024 – January 2025**
Java, Python, Multithreading, Windows APIs, Low-level mouse & keyboard hooks
https://github.com/JustinAngara/multithreaded-valorant-algorithm
- Created pixel-based target detection using image processing with 90% accuracy in real-time demos.
- Multithreaded detection scans, reducing latency to <5ms (faster than common algorithms ~200ms).
- Simulated input events via a Python process due to anti-cheat constraints.

Chess.com Stockfish Real-Time Game Integration Bot **December 2024 – January 2025**
Java, Stockfish, CLI Usage, Image Processing, Automation
https://github.com/JustinAngara/Chess.com-Auto-Stockfish
- Classified pieces into FEN strings using screenshots with 95 %+ accuracy among 1000+ positions.
- Returned Stockfish-based move suggestions within 150ms, sustaining practical real-time usage.
- Built a visual parser to extract the board to route Stockfish, enabling optimal move decisions visuals.

WORK EXPERIENCE

Open Source Software Engineer Internship **May 2025 – November 2025**
OpenQQuantify Vienna, VA
- Recorded 10+ technical walkthroughs on Flask systems (auth & SQLAlchemy) with GitHub demos.
- Built modular Flask apps with HTML/Junja, JS, and WebSockets that integrate AI tools.
- Maintained clean, peer-reviewed Git repos with atomic commits with 85% coverage of async routes.

AI & Prototyping Engineer Fellowship **June 2025 – August 2025**
Tech Exploration Lab - University of Wisconsin-Madison Madison, WI
- Researched AR/CV stacks (OpenCV & Unity) for vehicle condition detection in rental workflows.
- Built low-fidelity AI-assisted AR check-in flow demos and tested 3+ use cases for damage.
- Conducted user interviews and mapped the rental workflow to validate the demand for AR conditions.
- Delivered final demo + memo evaluating options (i.e., partners) based on prototype feedback.

Fall Flight Test Research Intern **October 2022 - January 2023**
Comet Santa Clara, CA
- Contributed to 5+ cross-functional projects across engineering, enhancing testing, and UI/UX design.
- Selected as Intern of the Week (Top 7%) for initiative during the software delivery cycle.
- Assisted in internal development efforts that contributed to website features and UI improvements

Skills

Languages: C++, Java, JavaScript, Python
Full Stack: ReactJS, Springboot, Flask, MongoDB, MySQL, API & WebSocket usage, jQuery
Concepts: Database Theory & Security, Git, Image Processing, Computer Vision