Justin Angara

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SUMMARY

Curious full-stack & 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 (10% of the Class of 2028).

PROJECTS

Low-level Anti-Cheat System for Online Exams: Defensive & Offensive Testing **May 2025 – June 2025**
React TS, Springboot, Java, C/C++, OpenAI Integration, Reverse Engineering, Low-level System Integration
https://www.youtube.com/shorts/G9aQb5mFjbo
- 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% detection rate.
- Implemented a React front-end with a WebSocket-based monitoring system with automated system checks.

Real-Time Computer-Vision Based Target Detection & Autofire System **November 2024 – January 2025**
Java, Python, Multithreading, Windows APIs via JNA, Low-level mouse & keyboard hooks
https://github.com/JustinAngara/multithreaded-valorant-algorithm
- Created pixel-based target detection using image processing with 97% accuracy in real-time demos.
- Optimized multithreaded detection scans, reducing latency to <5ms (faster than common algorithms ~200ms).
- Simulated input events via a Python process due to anti-cheat constraints via CLI communication.

Chess.com/Lichess.com Real-Time Move Suggestion Bot via Stockfish **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 visually.

WORK EXPERIENCE

Full-Stack Software Engineering Internship **May 2025 – Present**
OpenQQuantify Vienna, VA
- Recording 10+ technical walkthroughs on Flask systems (auth & SQLAlchemy) with GitHub demos.
- Building modular Flask apps with HTML/Junja, JavaScript, and WebSockets that integrate Open AI tools.
- Contributing to multiple company domains through open source development.

AI & Prototyping Engineer | Innovation & Venture Fellowship **June 2025 – Present**
Tech Exploration Lab - University of Wisconsin-Madison Madison, WI
- Researching AR/CV stacks (OpenCV & Unity) for vehicle condition detection in rental workflows.
- Building low-fidelity AI-assisted AR check-in flow demos and testing 3+ use cases for damage.
- Conducting user interviews and mapping the rental workflow to validate the demand for AR conditions.
- Delivering final demo + memo evaluating options (i.e., partners) based on prototype feedback.

Fall Flight Test Research Internship **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, C++, Java, JavaScript/TypeScript, Python
Technologies: ReactJS, Springboot, Flask, MongoDB, MySQL, RESTful API & WebSocket usage, jQuery
Concepts: Database Theory & Security, Git, Image Processing, Computer Vision, Process Injection