JAMMY WANG

Carmel, IN • (317) 689-9040 • jammywang12345@gmail.com • www.linkedin.com/in/jammywang

EDUCATION

Purdue University   **West Lafayette, IN**
B.S. Computer Science - Systems programming/ Database tracks   *Aug 2022 – May 2026*
- GPA: 3.7/4.00 - Dean's list, Presidential Scholarship Recipient

EXPERIENCE

Drone Racing Path Optimization Researcher   **West Lafayette, IN**
AirSim Drone Racing Research (SWARMS)   *Aug 2024 – Dec 2024*
- Led 3 peers to research virtual drone racing on a multi-agent control simulation platform from Microsoft.
- Implemented a machine learning algorithm by testing various epsilon values to perfect pathing and maximize speed in order to achieve the fastest time.

Software Developer Intern   **Santa Clara, CA**
Roche Diagnostics   *May 2023 – Aug 2023*
- Led full-stack development for the Sequencing team, enhancing application functionality and performance.
- Developed a log file analysis tool for a new DNA sequencer, streamlining error identification and resolution across multiple teams.
- Processed 1 billion log lines to detect 50,000+ errors, contributing to the training of an Artificial Intelligence model for improved error detection in the deployed product.

Software Developer Intern   **Fort Wayne, IN**
Fort Wayne Metals   *Jun 2022 – Aug 2022*
- Fine-tuned the new website for launch by resolving 15+ critical bugs, ensuring a smooth user experience.
- Improved website compatibility across devices and screen resolutions, enhancing user accessibility.

PROJECTS

VolunteerLink | MongoDB, Express, React, Node.js, Tensorflow, HTML
- Led 4 peers to create a platform that connects volunteers and organizers by suggesting relevant opportunities by harmonizing organizer postings and web scraping to find the optimal opportunities for the volunteer.
- Implemented a messaging system with email and sms notifications so the recruitment is streamlined.
- Deployed a database that optimizes the storage of user data and messages by utilizing 3NF

Nexus: Virtual Resource Refinement | Java, Python, Tensorflow, Virtualization, Emulation
- Directed and maintained a complex network of 50+ locally hosted virtual machines running Android 11
- Designed and executed a machine intelligence system to automate the gifting of premium resources, streamlining the flow of assets from over 1,000+ alt accounts to a primary account in the game Dragonvale.
- Successfully generated over $7,000 in premium in-game currency, significantly enhancing gameplay efficiency and resource availability for the community.

Traffic Insight Project | Java, Python, R
- Built a predictive software model for traffic flow analysis by compiling and analyzing live traffic data from Google Traffic using a Python script.
- Processed over 300 million data points from 60+ days of traffic data, providing actionable insights and accurate traffic predictions for various weather conditions.

CampusLive | MongoDB, Express, React, Node.js
- Developed a social media platform for university clubs and events, enabling verified users to post events on an interactive map, fostering community engagement.
- Achieved 3rd place out of 118 participants at a major hackathon

Personal Workout Tracker | MongoDB, Express, Angular, Node.js
- Engineered a comprehensive full-stack tool that tracks and stores detailed workout data, facilitating accurate monitoring of progress and volume over time.
- Tracked and analyzed data from 500+ personal workouts, leading to a 25% increase in workout consistency.
- Optimized workout duration and intensity by leveraging the application's data analytics and visualization features to enhance my own fitness performance.

SKILLS, INTERESTS, & RELATED COURSEWORK

Languages: Java, C++/C, R, JavaScript, CSHtml/CSS, SQL, Python, Typescript
Frameworks: Angular, Node.js, ReactJS, MongoDB, Tensorflow
Developer Tools: Git, Agile/Scrum, Jira, Microsoft Office, Google Suite, AWS, GCP
Interests: Computer Hardware, Samoyeds, Fitness, Clash of Clans, CS-GO, Valorant, Cars, Music
Relevant Coursework: Operating systems, Software Engineering, Information / Relational Database Systems, Systems Programming, Data Structures & Algorithms, Computer Architecture, Programming In C