

Jerry Yip

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EDUCATION

Purdue University

Bachelor of Science in Computer Science

May 2026

West Lafayette, IN

EXPERIENCE

Software Engineer Intern

Advanced Turf Solutions

May 2024 – Aug 2024

Fishers, IN

- Contributed to the development of ATS's internal CPQ system
- Designed and generated reports, dashboards, and dynamic dashboards to present user-specific data
- Leveraged Python, particularly the pandas library, for large-scale data manipulation
- Created and updated Lightning Web Components (LWCs) and collaborated with senior lead developers

Mayor's Youth Council

Clarksville Parks and Recreation

Aug 2021 – May 2022

Clarksville, TN

- Developed individual leadership skills to strengthen the community through volunteer service
- Communicated with elected city officials with heavy initiative in expanding the quality of the city

PROJECTS

Search Engine Optimization | Javascript, Apex, HTML, CSS

June 2024 – July 2024

- Created a custom Salesforce utility for real-time product and inventory searches, handling an average of 2,100 searches per month by sales reps
- Designed and implemented a custom search feature using a custom object's search labels and tags to categorize products by topics
- Enhanced a Program Planner app by integrating custom search functionality for improved user experience

Shell Project | C++, Lex, Yac

Feb 2024 – Apr 2024

- Developed a shell interpreter combining behaviors from bash and csh, implementing complex command parsing and execution
- Implemented key features such as file redirection, pipes, signal handling, subshells, environment variable expansion, and built-in functions

Malloc Implementation | C

Jan 2024

- Engineered a custom memory allocator, managing memory allocation and deallocation
- Optimized memory usage by administering bookkeeping for memory blocks to minimize fragmentation
- Developed and validated malloc() and free() functions, ensuring thread safety and efficiency

Tech Market | Java

Nov 2022 – Dec 2022

- Developed a system that takes each client on a thread and concurrently updates the status of the market
- Authorized users to create an account to which their login information is saved in a CSV file
- Utilized graphical user interface, swing, to help users navigate the system
- Evaluated user data to provide a comprehensive and condensed user market history

SKILLS

Languages: Salesforce Apex, SQL, Bash Script, C++, C, Python, Latex, Java, JavaScript, HTML/CSS

Developer Tools: Salesforce, Git

EXTRACURRICULAR ACTIVITIES

Society of Asian Scientists and Engineers

August 2022 — Present

Purdue Asian American Association

August 2022 — Present

Hello World Hackathon

September 2022

Purdue Computer Science Learning community

August 2022 — May 2023