

# Jerry Yip

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## EDUCATION

### Purdue University

Bachelor of Science in Computer Science

West Lafayette, IN

Expected May 2026

- Relevant Coursework: Systems Programming, Statistical Methods in R, Data Structures and Algorithms, Computer Architecture

## EXPERIENCE

### Software Engineer Intern

May 2024 – Aug 2024

Advanced Turf Solutions

Remote

- Contributed to the development of ATS's internal CPQ system, facilitating the creation of over 11,500 monthly quotes and driving \$9.1M in average monthly sales, improving quote-to-sale efficiency and scalability.
- Designed and generated 94,000 reports, dashboards, and dynamic dashboards per month to present user-specific data
- Leveraged Python and the pandas library to perform large-scale data manipulation on datasets comprising several 1,000 records
- Developed a custom Lightning Web Component to compare two object lists, enabling admins to identify both unique and matching values based on user-defined criteria

## PROJECTS

### Search Engine Optimization | *Javascript, Apex, HTML, CSS*

- 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

### Tech Market | *Java*

- 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

### Shell Project | *C++, Lex, Yac*

- 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*

- 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

## 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