Jonathan Oh

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EDUCATION

Carnegie Mellon University — August 2023 – May 2027
Bachelor of Science in Information Systems; Minor in Software Engineering — *Pittsburgh, PA*
- **GPA:** 3.9/4.0
- **Coursework:** Data Structures and Algorithms, Software Architecture, Software Construction(Objects, Design, and Concurrency), SML Functional Programming, C/C++, Java Object-Oriented Programming, Statistical Inference and Probabilistic Computation, Linear Algebra, and Discrete Math
- **Extracurriculars:** ScottyLabs Full-Stack Developer, TartanHacks Organizer, and Athletic Facilities Operator

EXPERIENCE

Incoming Software Engineering Intern — June 2025 – August 2025
Wells Fargo — *New York, NY*
- Summer 2025

Software Engineering Intern — January 2024 – August 2024
Angel Trading Company — *Atlanta, GA*
- Led the development of the first marketplace with **2k+ monthly active users** for Smiskis and Sonny Angels
- Developed various pages and features using **React** such as: live chat powered by **socket.io**, contact form using **Email.JS**, Login/Register secured by **Clerk Auth**, and FAQ and 404 pages
- Prototyped 12 High-Fidelity web prototypes in Figma, speeding up development times.
- Spearheaded a team of 6 as **Scrum Master** with daily stand-ups, weekly sprint planning, and sprint reviews

Software Engineering Intern — June 2023 – August 2023
Johnson and Johnson MedTech — *Cincinnati, OH*
- Tuned a low-cost powertrain for a surgical robotic arm, by mimicking production motors' dynamic models from step inputs, resulting in an increase from $2 \rightarrow 10$ engineers able to test movement scripts at once
- Developed **Python data type validation scripts** for the Eevee Data Visualization Tool used company-wide to analyze surgical tools data, by adding **data type checks, eliminating errors** from **incorrect data types**
- Decreased runtime from **15.42s $\rightarrow$ 3.12s** by refactoring conversion algorithms by integrating **Pandas**
- Received the **Inspire Award** for outstanding contributions to the Surgical Robotics team

Teaching Assistant — August 2022 – May 2023
The Ohio State University College of Engineering — *Columbus, OH*
- Taught 200 students **Big-O Time/Space Complexities, Linked Lists, Hashing, Sorting, and Searching**
- Led weekly labs, held office hours twice a week, and graded assignments

PROJECTS

SteerSafe | *Swift, Apple CoreMotion, Apple CoreLocation, Firebase, TomTom API* — October 2024
- Engineered an **iOS app** using **Swift** that promotes distraction-free driving with redeemable coins
- Leveraged **CoreMotion** to **track real-time phone usage via accelerometer**, providing instant reminders
- Implemented **CoreLocation** and **TomTom** APIs for **live speed tracking** and **alerts** with **95.8% accuracy**
- Integrated **Firebase** for authentication and **real-time data storage**, enabling tracking of driving stats, live leaderboard updates, and reward management

ApartMatch | *Next.js, JavaScript, Django, Python, Auth0, GoogleMaps API, PostgreSQL, AWS S3* — July 2024
- Built an online platform that streamlined the off-campus housing search for students by displaying live room availability in apartments, enabling users to instantly join open rooms with one-click suitemate matching
- Leveraged **Google Maps APIs** to **dynamically display maps** featuring only student-posted listings
- Developed **RESTful APIs** with **Django** and **Python** for seamless post, edit, update, and delete of listings

TECHNICAL SKILLS

Languages: Java, C, C++, Python, JavaScript, R, Swift, HTML, and CSS
Libraries/Frameworks: AWS, React, Node, Next, Express, Django, PostgreSQL, MongoDB, Tailwind CSS.
Other Skills: Data Analysis, Software Development Life Cycle, Agile, Scrum, Microsoft Office, and Git/GitHub