Joonho Jonathan Oh

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
B.S. in Computer Science, Information Systems, Minor in Software Engineering   May 2027
- **GPA:** 3.93
- **Relevant Coursework:** Data Structures and Algorithms, Discrete Math, Java Object Oriented Programming, C++ for Engineers, Calculus I & II, Computer Science Practicum(Capstone), and Calculus-Based Physics.
- **Extracurriculars:** Men's Track and Field, Carnegie Mellon FSAE and Autonomous Racing, Table Tennis Club, and Korean American Students Association.

PROFESSIONAL EXPERIENCE

Angel Trading Co.   Atlanta, GA
Software Engineer Intern   January 2024 – May 2024
- Led the development of an **online marketplace** with **2k+ monthly active users** for Smiskis and Sonny Angels.
- Spearheaded a **team of 6** as **Scrum Master** with daily stand-ups, weekly sprint planning, and sprint reviews.
- Prototyped in **Figma** and then developed various pages and features such as: live chat powered by **socket.io**, contact form using **Email.JS**, Login/Register secured by **Clerk Auth**, and FAQ and 404 pages using **React.**
- **Automated production and testing builds** via a **Netlify powered CI/CD pipeline** using **GitHub actions**.

Johnson & Johnson   Cincinnati, OH
Software Engineer Intern   June 2023 – August 2023
- 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 -> 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 performance, **by adding data type checks**, eliminating errors from incorrect data types.
- Refactored existing **data type conversion algorithms** by integrating **Pandas dataframes,** resulting in a **runtime decrease** from **15.42s -> 3.12s**.
- Received the **Inspire Award** for outstanding contributions to the **Surgical Robotics team**

The Ohio State University College of Engineering   Columbus, OH
Computer Science Teaching Assistant   August 2022 – May 2023
- Hired as a high schooler to **lead 200 undergraduates** in **Data Structures & Algorithms** and **Java Programming**.
- Collaborated with the professor to **lead weekly labs, hold office hours** 2x/week, and **grade assignments.**

PROJECTS

ApartMatch   May 2024 – Present
- Engineered an online platform enabling students to efficiently find roommates and off-campus housing
- Leveraged **Google Maps APIs** to dynamically display maps featuring only student-posted listings, improving user experience and search relevance.
- Developed **RESTful APIs** in **Django** to facilitate **CRUD operations**, enabling live updates on available rooms.
- Protected against non-student posters by **requiring a .edu email** via **Auth0 User Authentication.**
- Utilizes: Next, JavaScript, Django, Python, Auth0, PostgreSQL, TailwindCSS, and deployed on Vercel & Fly.io

SWEdle   January 2024
- Developed a **Full-Stack web game** to **guess** and **refine knowledge of programming terms** within 6 tries.
- Utilizes: React, JavaScript, Express, MongoDB, TailwindCSS, and deployed on Netlify and Fly.io

SKILLS

- **Languages:** Java, Python, C++, C, JavaScript, HTML, and CSS
- **Libraries/Frameworks:** React, Node, Next, Express, Django, PostgreSQL, MongoDB, Tailwind CSS.
- **Technical Skills:** Data Analysis, Agile, Scrum, Microsoft Office, and Git/Github