

# Joonho Jonathan Oh

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## EDUCATION

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### Carnegie Mellon University

B.S. in Computer Science & Political Science, Security, and Technology

Pittsburgh, PA

May 2027

- **GPA:** 3.93
- **Relevant Coursework:** Data Structures and Algorithms, Discrete Math, Java Object Oriented Programming, C++ for Engineers, Computer Science Practicum.
- **Extracurriculars:** Men's Track and Field, Carnegie Mellon FSAE and Autonomous Racing, Table Tennis Club, and Korean American Students Association.

## EXPERIENCE

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### Angel Trading Co.

Software Engineer

Atlanta, GA

January 2024 – May 2024

- Led the development of the first **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 **EmailJS**, 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

Software Engineer Intern

Cincinnati, OH

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 **data type conversion algorithms** by integrating **Pandas**, **decreasing runtime from 15.42s -> 3.12s**.
- Received the **Inspire Award** for outstanding contributions to the **Surgical Robotics team**

### The Ohio State University College of Engineering

Computer Science Teaching Assistant

Columbus, OH

August 2022 – May 2023

- Hired as a high schooler to **lead 200 undergraduates** in **Data Structures & Algorithms** and **Java Programming**.
- Taught subjects such as **Big-O Time/Space Complexities**, **Linked Lists**, **Hashing**, **Sorting**, and **Searching**.
- Collaborated with the professor to **lead weekly labs**, **hold office hours 2x/week**, and **grade assignments**.

## PROJECTS

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### [ApartMatch](#)

May 2024 – Present

- Engineered an online platform that allows students to seamlessly find off-campus housing, featuring real-time room availability, filtering, and one-click matching into apartments.
- Leveraged **Google Maps APIs** to dynamically display maps featuring only student-posted listings.
- Developed **RESTful APIs** with **Django's REST framework** using **Python** to facilitate all **CRUD operations**.
- 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

### [SWEde](#)

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

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