Joonho Jonathan Oh

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EDUCATION

Emory University   Atlanta, GA
B.S. in Quantitative Sciences, Computer Science, and Pre-Law   May 2026

- **GPA: 3.93**
- **Relevant Coursework:** Data Structures and Algorithms, Computer Science Practicum, Discrete Mathematics, Java Programming, C++ for Engineers and Scientists, Calculus I & II, Calculus-Based Physics.
- **Extracurriculars:** Varsity Track and Field, Computer Science Club (VP), M||E Competitive Programming, Data Science Club, and Korean Undergraduate Students Association.

PROFESSIONAL EXPERIENCE

Johnson & Johnson   Cincinnati, OH
Software Engineer Intern   June 2022 – July 2023

- Wrote **12 Python scripts** to **autonomously test a surgical robotic arm's transient response** to a step input.
- Developed **broadband tests** to get the robotic arm's frequency response to excitation signals and generated Bode, Nyquist, and Nichols Diagrams representing these frequency responses.
- Tuned an Independent Stack Manipulator (ISM) to **dynamic models mimicking a robotic arm's movement.**
- Developed **efficient Python data type validation scripts** and **conversion tools** for the Eevee Data Visualization Tool, used to generate dynamic models and graphs from transection data of surgical cutters and staplers.
- **Optimized** existing **data validation algorithm run time** by **60.86%** using **Pandas'** vectorized data conversion and analysis tools.
- **Received Inspire Award** and **return offer** from the Director for **outstanding contributions to the Robotics team**

The Ohio State University   Columbus, OH
Undergraduate 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

[Angel Trading Company](#)   January 2024 – Present

- Spearheaded the **Front End Development** of a **trading, selling, and buying platform for** Smiski and Sonny Angels.
- **Led a team of 6 students as Scrum Maste**r with daily stand-ups, weekly sprint planning, and sprint reviews.
- **Automated production and testing builds** for the backend and frontend via a CI/CD pipeline using **GitHub actions**.
- Utilizes: React + Vite for frontend, Django for backend, S3 with Postgres for storage, and Clerk for User Auth.

[SWEdle](#)   January 2024

- **Full-Stack web game** to **guess** and **refine knowledge of** various **programming terms** based off Wordle
- Utilizes: React, JavaScript, MongoDB, HTML5, TailwindCSS, and Deployed on Netlify and Fly.io

[StockBot](#)   December 2023

- **Discord Bot** that **stores a watchlist of stocks** and **sends frequent updates** on price changes/profits/losses.
- Utilizes: Python, Pandas, Discord API, and Alpha Vantage API

SKILLS

- **Languages:** Java, Python, C++, C, JavaScript, HTML5, and CSS
- **Libraries / Frameworks:** Pandas, NumPy, SciPy, Django, MongoDB, Node, Express, React, and Tailwind CSS
- **Technical Skills:** Data Analysis, Agile/Scrum, Microsoft Office, Git, and GitHub