

Ji Woong John Park

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Education

Pennsylvania State University

Bachelor of Science

Computer Science, May 2024

Mathematics Minor

GPA: 3.67

Relevant Coursework:

- └ Systems Programming
- └ Theory of Computation
- └ Data Struct. & Algorithms
- └ Discrete Math
- └ Operating Systems Design
- └ Mathematical Statistics
- └ Matrices
- └ Math Theory of Games
- └ Intro to Neural Networks

Skills

Programming Languages:

Python • TypeScript • C • SQL •
React Native • JavaScript • Git
• Pandas • CSS

Languages

English (*Native*)

Korean (*Proficient*)

Activities & Interests

- └ Website Developer for Nittany Data Labs
- └ Penn State Korean Language Tutor
- └ Global Perspective
- └ Creativity & Designing
- └ Adventurous

Awards and Honors

Dean's list: Spring 2021, Fall 2021, Spring 2022, Fall 2022

Work Experience

Optum/UnitedHealth Group • Software Engineering Intern Jun 2023-Aug 2023

- Worked through full stack development of end-to-end app for seamless business interactions between client and company.
- Tech Stack: TypeScript, React Native, and Figma to build dashboard view of patient data within a modern UI/UX enhancing user experience. Then connected back-end data with internal APIs for constant retrieval of up-to-date information.

Back End Data Acquisition

Jun 2022-Aug 2022

- Worked on smart prediction software that retrieves missing Covid-19 Vaccination information from U.S. state registries using patient location.
- Big data management of over 1-4 million profiles within each state.
- Used pandas and python for backend logic and SQL in DBeaver for data parsing.
- Our program acquires 1-5% of missing and lost patient data.

Selected Projects

Handling Chaos: Multi-threading handler in C • CMPSC 473 OS Design

- Programmed in C to organize multi-threading in a CPU processor to avoid race conditions, deadlocks, and starvation.

Digital Identity: Website • Personal Project

- Driven by the desire to create an online presence from scratch.
- Built front end with React JS and CSS and hosted it on Firebase for backend.

FPGA Magic: Mini-CPU Architecture FPGA • CMPEN 331 CPU Design

- Created a mini-CPU programmed in MIPS on Vivado that executes machine code.
- Tested with Verilog to fetch, execute, and write data from registers and memory.

App Development: Android App • CodePath Android Development

- Constructed an Android app "Recishop" that transforms recipes into curated shopping lists, simplifying grocery planning and enhancing user experience.
- Other projects include Instagram clone, Twitter clone, Movie Rating app.

Leadership

Association for Computing Machinery President

Nov 2022-Present

- Direct and facilitate activities that provide technical opportunities to peer students. Manage 14 club executives on weekly basis.
- DevPSU Learning Captain and Director (Nov 2021 – Nov 2022)
- Taught Python automation and website development in lecture formats.

Scrum Master

Jun 2023-Aug 2023

- Lead peer through agile software development in Spring format

Research

- Research the implementation of NLP neural network to detect word pattern and sentence structure to flag users who show depressive behavior on Twitter.
- Extensive research in publications regarding Long Short-Term Memory, Graphical Neural Networks, and Lexical Analysis.