

# Joel Son

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## EDUCATION

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### University of Michigan

*Bachelor of Science in Computer Science*

Ann Arbor, MI

Aug. 2021 – May 2025

- **GPA:** 3.7/4.0
- **Course Highlights:** Data Structures and Algorithms, Web Systems, Computer Organization, Foundations of Computer Science (Ongoing: Operating Systems\*\*, Software Engineering\*\*)
- **Honors/Awards:** University Honors, Regents Merit Scholarship, Korean Language Program Nam Essay Award

## EXPERIENCE

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### Code Platoon

May 2023 - July 2023

*DevOps and Cloud Engineering TA Intern*

Chicago, IL

- Taught core programming principles in Python to military veterans and spouses for an extensive 15-week period coding bootcamp
- Conducted instructive sessions on foundational concepts in data structures and algorithms to advance students' range of computer science skills
- Offered individualized mentoring support, guiding students in debugging and refining their scripting and configuration files for various technologies

### Collaborative Lab for Advancing Work in Space (CLAWS)

Oct. 2022 - Present

*AR Team*

Ann Arbor, MI

- Developed an augmented reality space suit HUD with Unity Engine (C#) and Microsoft MRTK toolkit for the NASA SUITS Challenge, contributing to future NASA Artemis missions
- Implemented a text-messaging component that would communicate with other users and MCC (Mission Control Center)
- Oversaw the vitals subteam, tasked with creating multiple screens that tracked up-to-date vitals data of the user sent from a telemetry stream

### Program Advancing Coding Comfort for Aspiring Biomedical Researchers

Sept. 2023 - Present

*Programming Education Committee*

Ann Arbor, MI

- Spearheaded the establishment of the programming education committee, playing a pivotal role in its inception
- Led and facilitated weekly student Python workshops and lectures in Jupyter Notebook for over 50 biomedical students, equipping them with essential skills in utilizing key Python libraries, including NumPy and Pandas
- Empowered students with hands-on experience in data visualization and manipulation, fostering a solid foundation in programming for biomedical research

## PROJECTS

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### Instagram Clone | Python, Flask, React.js, JavaScript, HTML, AWS EC2

- Full-stack social media web app with React.js front-end and Flask REST API for modern Instagram experience, including infinite scrolling, double-tap to like, user authentication, and account creation

### Scalable Search Engine | Python, HTML, CSS

- Search engine to rank Wikipedia articles, employing custom multi-threaded MapReduce server, REST API for search results, and Google or Bing-like user interface

### Weather App with Speech Recognition | JavaScript, HTML, CSS, openweather API, Web Speech API

- Weather web app using openweather API for real-time data and Web Speech API for speech-to-text integration

### LingoLink Discord Bot | Python, googletrans API, AWS Polly API

- Discord bot enabling global communication via translation and text-to-speech commands with googletrans and AWS Polly APIs

## TECHNICAL SKILLS

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**Languages:** Python, C++, C, C#, JavaScript, Bash, Assembly, HTML/CSS

**Frameworks:** React, Flask

**Developer Tools:** Git, AWS, VS Code, Visual Studio

**Libraries:** pandas, NumPy, Matplotlib, Seaborn, Jinja