

YOUNGJUN YOO

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EDUCATION

Purdue University

West Lafayette, IN

B.S. in Computer Science Honors | Software Engineering & Systems Software Track

Expected May 2026

- GPA: 3.80/4.00 | Dean's List and Semester Honors (5/5 Semesters)
- *Relevant Coursework:* Operating Systems, Embedded Systems, Software Engineering I, Cloud Computing, Analysis of Algorithms, Data Structures & Algorithms, Systems Programming, Information Systems, Computer Architecture

WORK EXPERIENCE

Fasoo

Jun 2024 – Aug 2024

Software Engineering Intern | AI, Frontend

Seoul, South Korea

- Developed a real-time voice-to-note solution using **React** and **WebSockets**, integrating **STT** and **LLM** to process responses for **300+** daily users, reducing response time by **40%** through efficient **API** integration and React rendering
- Implemented a **TTS platform** using **OpenAI TTS**, enabling bi-directional voice communication with **Claude 3 Haiku LLM**, increasing user engagement by **65%** through dynamic voice interaction and providing multilingual support
- Implemented audio transcription and diarization with **WhisperX**, achieving **95%** accuracy on 2-hour audio files

Purdue University Department of Computer Science

Jan 2024 – Present

Undergraduate Teaching Assistant | Systems Programming, Programming in C

West Lafayette, IN

- Guided **300+** students on core **C** concepts (memory management, pointers, structs) through a course Q&A forum
- Participated in **QA** for assignments for **700+** students, graded assignments, and led weekly labs with **30+** students
- Assisted **100+** students during office hours, providing **debugging** guidance, clarifying concepts, and addressing doubts
- Conducted **code reviews** for **300-700** students, ensuring adherence to established **C** code standards for the course

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Jun 2023 – Aug 2023

Software Engineering Intern | Frontend

Seoul, South Korea

- Engineered new features in the internal **TypeScript/React/Redux**-based project management system by building **reusable frontend components** for tracking project status, creating tasks, and updating the overall progress
- Developed a real-time **markdown renderer** with React, transitioning from manual formatting to **markdown-based documentation** with live preview, enhancing collaboration and boosting productivity by **40%** for **300+** employees

Fasoo

Jun 2021 – Aug 2021

Software Engineering Intern | Security, Backend

Seoul, South Korea

- Created a deliberately insecure **Flask** application to test Sparrow, a static/dynamic application security testing solution
- Augmented Sparrow's static application security testing (SAST) suite with new ground truths, mitigating **90%** of obfuscated **OWASP Top 10** security risks in Flask WebGoat, surpassing the detection capabilities of external tools
- Implemented **Flask logging**, enabling real-time on-screen display of deserialization for insecure Linux commands

PROJECTS

BoilerDate | *JavaScript, React.js, Express.js, MongoDB Atlas, Material UI, Render, Netlify*

Jan 2024 – Apr 2024

- Developed a **full-stack dating web app** for Purdue students, with swipe functionality, real-time chat, and filtering
- Implemented **premium features** with advanced search criteria based on **GPA**, **major**, and **educational background**

BoilerPlate | *TypeScript, React.js, Next.js, Tailwind CSS, Firebase, Vercel, OpenAI API*

Jan 2024 – Feb 2024

- Created a **web app** streamlining **personalized, healthy meal selection** across Purdue's diverse dining court options
- Utilized **OpenAI's Chat Completion API** for tailored nutritional advice, enhancing users' meal selection experience

ORGANIZATIONS

Hack the Future | *Team Lead*

Sep 2024 – Present

- Team Lead at Hack the Future, the largest student organization at Purdue for creating software for **nonprofits**
- Leading a **10-person** team to develop and deploy a revamped website for Rebuilding Together East Bay Network
- Mentoring team in **React**, **Git**, and **design principles**, while leading weekly meetings and liaising with stakeholders

TECHNICAL SKILLS

Languages: Python | JavaScript/TypeScript | C/C++ | Java | SQL | x86 Assembly | \LaTeX

Frameworks/Technologies: React | Express | Next | FastAPI | Flask | MongoDB | SQLite3 | MySQL | PostgreSQL | SQLAlchemy | Jinja2 | Firebase | Render | Netlify | Vercel | Postman | AWS | Git