

# Hudson Chung

hudsonch@uchicago.edu | +1 (914)-771-0006 | 174 Somerstown Rd, Millwood NY | [linkedin.com/in/hudson-chung](https://www.linkedin.com/in/hudson-chung)

## EDUCATION

**The University of Chicago** | GPA: 3.7/4.0

**Chicago, IL**

*Bachelor of Science in Computer Science; Bachelor of Arts in Economics*

Expected, June 2027

## EXPERIENCE

**FoodFight | SaaS Startup:** *Full Stack Engineer Intern*

June 2024 – September 2024

- Developed frontend services and backend microservices for FoodFight, a social gaming platform using menu items as currency for live sports bets, with ReactJS and Python, collaborating with 6 interns and 3 senior engineers.
- Implemented 3 Slack bots using Python, REST API and Webhooks that notified development team of 100+ new sign ups, reported individual real time game statistics, and gathered user information to generate user insights
- Updated AWS EC2 database tables and backend services, ensuring game status updates were reflected in real-time

**Haylon Technologies | Advanced Battery Systems Startup:** *Business Development Intern*

March 2024 – May 2024

- Produced 80+ slides of reports on the technologies and government contracts of competitors in aviation battery systems, used by the engineering team for battery efficiency and by the business team for funding proposals
- Collaborated with interns to analyze competitor contracts, presenting key findings to the CEO and COO

**Samsung Electronics:** *Product Strategy Intern*

July 2022 – July 2023

- Developed an innovative mobile service concept by leveraging the IDEO methodology to effectively balance customer needs with technological feasibility, aiming to significantly increase engagement with Gen-Z consumers
- Led 3 workshops and brainstorming sessions, refining 3 major mobile service concepts for market feasibility
- Created a Figma design and pitched the UI outline and monetization strategy to the Head of Product Strategy

## PROJECTS

**Swim Stroke Coach:** *Computer Vision*

February 2025 – Present

- Developed a swimming stroke detector using Python, OpenCV, and MediaPipe to count strokes and classify styles; Utilized pose estimation to compute joint angles and deliver real time feedback, boosting training insights.
- Analyzed swimmer biomechanics meticulously to pinpoint key joint angles for stroke classification; Chose hip-shoulder-elbow metrics to reliably differentiate stroke phases and effectively enhance detection accuracy

**PeronoAI:** *Founder/Developer*

December 2024 - Present

- Designing and building an AI-powered language learning app that personalizes lessons using OpenAI's GPT-4o, dynamically integrating user-selected hobbies and preferences for a highly engaging learning experience
- Developed a scalable backend architecture with Firebase Firestore, enabling real-time user data storage, lesson tracking, authentication, and efficient data management for a dynamic and adaptive user experience.
- Engineering an interactive and visually intuitive SwiftUI frontend, implementing onboarding flows, gamified lesson structures, and AI-driven vocabulary generation to enhance user retention, engagement, and learning efficiency

**CLI Python Go Implementation**

January 2024 – March 2024

- Collaborated in a team of four to create a fully playable game of Go, including game logic, a terminal-based interface, and conducted comprehensive unit, integration, and end-to-end tests to ensure seamless gameplay
- Created a Bot that uses Go-specific board strategies, including the Fuseki and Joseki opening theories and a simplified Minimax algorithm to consistently achieve an over 85% win rate in extensive tests, enhancing gameplay

## LEADERSHIP & ACTIVITIES

- **UChicago Men's Swim Team:** Balanced a rigorous 25+ hour per week practice schedule while managing full-time coursework, contributing to the highest UAA performance in program history
- **Korean Students Organization | Communications Chair:** Oversee member outreach, instagram content strategy that garnered over 40,000 views to enhance engagement with the UChicago and Korean community

## SKILLS

- Programming & Development: Python, Java, C, JavaScript, Swift (SwiftUI), SQL, React, TailwindCSS, Node.js
- AI/ML & Data Systems: OpenAI API, Pandas, NumPy, AWS (EC2, S3), Firebase, Databases (MySQL, Firestore)
- Tools & Infrastructure: Git, Linux Command Line, REST APIs, Webhooks, Figma