Tae Wook (Tyler) Kim

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Education

Columbia University, School of Engineering Sept 2022 – May 2026 (Anticipated)

B.S. Candidate in Computer Science (GPA: 3.84)

- Courseworks: Data Structures (in Java), Advanced Programming (in C), Discrete Mathematics, Multi-variable Calculus, Fundamentals of Computer Systems, Linear Algebra and Probability
- Received the Chung Family Scholarship at Columbia Engineering for academic excellence

Experience

Founder and CEO at Scraft (Techstars AnjalZ '23) Sept 2022 – Present

Scraft is an AI language tutor for practicing writing and speaking skills with stories; 22% DAU/MAU, 5k users

- Built a web app with Typescript, React, NextJS, Django, Azure AI Studio, Firebase that leverages on GPT4
- Winner of Pear VC Competition ($10,000 SAFE), US Champion in Education at Microsoft Imagine Cup ($2,500), 1st Place at Columbia Venture Competition ($15,000), Top 10% of YCombinator W23 applications
- Implemented custom authentication in Django REST API that allows user to create, modify, and delete excercises
- Developed data-driven referral dashboard feature that led to 270% increase in signups, 12% increase in retention
- Hired and led two Project Management interns to develop A/B testing and feedback pipeline for new features

Undergraduate researcher at Computational Design Lab@Columbia May 2023 – Aug 2023

Computational Design Lab studies HCI(Human Computer Interaction) of AI tools

- Studied how language learners use generative AI tools and apps; interviewed over 50 users across diverse proficiency levels and target languages
- Conducted market landscape study on three most popular AI language-learning apps (Duolingo Max, Speak, Quazel) that resulted in Scraft's biggest pivot to current product vision
- Published and presented a position paper at the CHI 2023 In2Writing workshop as the only undergraduate speaker

Operational committee leader at CORE Feb 2023 – Present

CORE is Columbia's Premier Undergraduate Entrepreneurship Organization

- Spearheaded the fellowship program by interviewing and matching 100+ Columbia undergraduates to select startups for a 8-week internships program; Planned cohort-bonding events and info sessions
- Led the website development for annual hackathon by overseeing both development team and design team

Software engineering intern at Faikerz July 2021 – July 2022

Faikerz is a legal-tech startup helping luxury brands safeguard their intellectual property

- Built counterfeit detection models for fashion brand clients and live-tested against Korean e-commerce sites
- Built a keyword analysis REST API that detects anomalies in keyword and price distribution for online products. Filtered out 30% anomaly samples from initial dataset. Used Python and Flask
- Implemented hierarchical image classification model and keyword analysis API for CH*NEL products in PyTorch
- Built a clustering model that categorizes online products based on price, supplier, and distribution path

Personal Projects

Tutor Scheduler [Project Link]

- Built a web-based tutor appointment scheduler for Kent School using Django and PostgreSQL
- Served 500+ students and tutors to keep track of upcoming and past sessions easily for a single semester

Orbitron [Project Link]

- Built a vehicle with a spherical wheel that implements a 4 wheel independent steering/driving system
- Developed a unique control algorithm in Mathematica and wrote/presented a paper in front of school body
- KR. PATENT 10-2268833, *"Driving System and Method of Vehicle,"* Issued June 18, 2021

Skills

Languages: Python, Java, C++, TypeScript/Javascript, HTML/CSS; Korean (Native)
Frameworks: React, Django, Flask, NextJS, Redux, Firebase