Tyler Kim

tk2891@columbia.edu | github.com/tylertaewook | tylertaewook.com | U.S. Permanent Resident

EDUCATION

Columbia University, School of Engineering and Applied Science New York, NY
B.S. Candidate in Computer Science (GPA: 3.80) *Sept. 2022 – June 2026 (Anticipated)*
- Supported by the Chung Family Scholarship at Columbia Engineering for academic excellence
- Started in 2022 after completing military service from Nov. 2020 to Aug. 2022

Kent School Kent, CT
High School Diploma (GPA: 4.16) *Sept. 2017 – June 2020*
- Bowdoin book award for extraordinary service to the community and passion for innovative thinking
- Service award for completing over 100 hours of community service a year

AWARDS AND HONORS

Microsoft ImagineCup World Finalist (one of 48 teams worldwide) for Scraft.ai March 2023
Patent for Orbitron's 4WIS/WID driving system and control algorithm (#10-2268833) June 2021
7 Awards at Connecticut's Science and Engineering Fair for Orbitron June 2020
Best Student Research Paper Award at University of Florida's SSTP August 2019

EXPERIENCE

Founder and developer of Scraft.ai Jan 2021 – Present
Scraft.ai is an AI startup part of Almaworks Acceletor's W22 cohort *Typescript, NextJS, Django, React*
- Building an AI writing tutor that empowers ESL students how to think and write in English by providing thought-provoking prompts, personalized feedback, and suggestions; Uses Typescript, NextJS, Django, and React
- Part of Almaworks Accelerator's W22 Cohort; Attended weekly workshops as part of 2022 Columbia Startup Accelerator Cohort to formulate business models and marketing strategies; Currently serving 3k+ beta test users

Operational committee leader at CORE Feb 2023 – Present
CORE is Columbia's largest student entrepreneurship organization *Figma, React*
- Almaworks Fellowship: Reached out to select startups and connected with Columbia undergraduates for 8-week internships program; Planned cohort-bonding events and info sessions
- Alumni Relations: Coordinated alumni reunions and alumni x OCL brunch events to foster an open, supportive, entrepreneurial family that extends beyond campus

Software engineering intern at FAikerz July 2021 – July 2022
FAikerz is a legal-tech startup in South Korea *Python, PyTorch, Numpy*
- Worked on counterfeit detection models for fashion brand clients and live-tested against Korean e-commerce sites
- Implemented hierarchical image classification model and keyword analysis API for CH*NEL products in PyTorch. Combined EfficientNet and Local Classifier per Parent Node technique to achieve 85.2% accuracy; 19.2% improvement from previous model

Student researcher at University of Florida's SSTP June 2019 – Aug 2019
SSTP (Student Science Training Program) is a selective summer program for high school students *PyTorch, Pandas*
- Implemented a histogram layer for texture analysis CNN model with PyTorch in Dr.Alina Zare's Lab
- Wrote and presented a research paper and poster titled *Histogram Layer for Texture Classification*;

INDEPENDENT PROJECTS

Tutor Scheduler | *Django, PostgreSQL, Docker* Nov. 2021 – June 2022
- Built a web-based tutor appointment scheduler for alma mater using Django and PostgreSQL
- Served 500+ students and tutors to keep track of upcoming and past sessions easily for a single semester

Orbitron | *Arduino, Mathematica, C#* Jan. 2018 – June 2020
- 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; Accepted as one of three members in Kent Guild;