

Ethan Kang

kangethan02@gmail.com • (607) 438-9629 • <https://www.linkedin.com/in/ethan-kang/> • <https://www.ethankang.co/>

Strongly motivated computer science student interested in the areas of ML, HCI, and UI/UX design.

EDUCATION

Georgia Institute of Technology, *Bachelor of Science in Computer Science, 3.777* *Expected Graduation: Dec 2023*

Coursework - Data Structures & Algorithms, Artificial Intelligence, Formal Languages and Finite Automata, Perception, Human-Computer Interaction, Cognitive Science, Educational Technology

Extracurriculars - GT Swim Club, Grand Challenges, Emerging Leaders, Design Bloc, Bits of Good, AccessCORPS

University of Leeds, *International Exchange Student*

Jan - Jun 2022

Extracurriculars - LUU Swimming & Water Polo, LUU Ultimate Frisbee

TECHNICAL SKILLS

Languages: Python, HTML, C, Java, JavaScript, CSS, SQL

Frameworks/Libraries: Node.js, React, Flask, Spark, JUnit

Tools: Git, Docker, Linux, AWS (S3, EC2, EMR, DynamoDB), Firebase, Figma

EXPERIENCE

Amazon | Amazon Web Services, S3 Async - *Software Developer Engineer Intern* *May 2023 - Current*

Amazon | Amazon Web Services, S3 Lifecycle - *Software Developer Engineer Intern* *May 2022 - Aug 2022*

- Designed and implemented a major optimization upgrade for internal enqueue systems, improving parallelization capabilities of a major customer storage service with zero production downtime
- Built a key data visualization dashboard analyzing 8+ operational production metrics across 30 global regions

LightBox | Environmental Data Resources - *Data Science Intern* *May - Aug 2021, Jan 2022, Jan - Apr 2023*

- Built an interactive React app modeling geographical contamination plumes using environmental contaminant data
- Developed Python tool to extract OCR data of 4000+ city directory books and statistically analyze results

PROJECTS

SkillfulSpoon, GT | *Educational Technology* *UI/UX design, User research, EdTech*

- Designed gamified mobile app to teach basic cooking concepts to teens with focus on measurable learning outcomes
- Supported design decisions with research including the How People Learn (HPL) framework

enVision, GT | *Human-Computer Interaction* *UI/UX design, User research*

- Led prototype design of a wearable heads-up display for medical professional use and user interface with a fundamental focus on visual elements in the peripheral vision
- Performed user research studies on communication pain point in medical facilities

Let's Code Thailand, Digital Makers Asia Pacific *Project management*

- Designing pilot program in Thailand to increase computer education and exposure to rural areas
- Receiving support and funding to develop curriculum and organization structure logistics for field staff

Woodruff Park Case Study, Design Bloc *User research*

- Conducted user research into experiences and needs of the unhoused population in Atlanta's Woodruff Park
- Developed psychographic personas and ecosystems to identify complex relationships between user groups

GroupMe Redesign, Bits of Good *Figma, User research, User testing*

- Substantially improved the design of a popular messaging app based on key pain points identified by user research
- Conducted usability evaluations including A/B tests to improve and validate significant design decisions

OctoDash, 2020 Asia-Pacific Economic Cooperation App Challenge *PyTorch, React, Firebase, Leaflet.js*

- Developed a COVID-era React app with ML-powered customer traffic prediction and inventory management
- Awarded 3rd place representing the US for a tourism sector recovery solution within APEC's 21+ economies

INVOLVEMENT

Digital Makers Asia Pacific - *Logistics and Project Manager* *September 2021 - Current*

- Key leader in driving organizational initiatives and supporting global communication logistics
- Managing the US-hosted 2023 APEC App Challenge with 200+ global participants