

Nathaniel Kim

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Education

The University of Chicago, Chicago, IL

BS, Computer Science; BA, Minor in East Asian Languages and Cultures, May 2027

GPA: 3.556/4.0

Awards and Honors: Dean's Scholar Award (2023), Quad Undergraduate Research Scholar (2025-2026)

Relevant Coursework: Calculus III, Intro to Computer Science II, Intro to Proofs in Analysis, Systems Programming II, Discrete Math, Theory of Algorithms, Mathematical Foundations of Machine Learning, Internet Censorship and Online Speech

The Academy for Information Technology, Scotch Plains, NJ

Certification in Information Technology, June 2023

QPA: 94.55/100; Honor Roll 2019-2023

SAT: EBRW 770; Math 800

Relevant Courses: Multivariable Calculus, Linear Algebra, Data Science & Mathematical Statistics, Advanced Software Development, Database Management, Web Design

EXPERIENCE

Uchicago Security, Usability, & Privacy Education & Research Group, Chicago, IL

Mar 2025 – Present

Research Assistant

- Conducted user-centered research to understand privacy and security challenges and develop novel solutions
- Engineered a full-stack web application using React and MySQL, designing the database schema and integrating front-end and back-end systems
- Processed and analyzed large datasets using Pandas and NumPy to extract insights and generate predictive models
- Co-authored a research paper submitted to top-tier HCI and privacy/security conferences, currently under review

Deep_Dive, Mexico City, Mexico,

July-Sept 2024

Artificial Intelligence Intern

- Developed a proprietary facial recognition system to verify identity against government-issued IDs
- Researched and implemented the GhostFaceNets model to optimize the balance between accuracy and computational efficiency
- Trained, fine-tuned, and evaluated the model, achieving 97% accuracy on validation data

Independent Projects

TwoTwentyFive 2024

- Led the end-to-end development of a cross-platform mobile app using React Native and Firebase to foster a social network for gym enthusiasts
- Implemented core features including a social media feed, real-time messaging, and gym-specific community tools
- Conducted market research to define product requirements and user stories, guiding the development lifecycle
- Awarded 3rd Place at the University of Chicago Summer Tech Showcase, winning a total of \$950

Modeling the Future Challenge (Data Science Research Competition) 2023

- Semi-finalist research paper that analyzed the costs and benefits of reducing pollution using data science and math modeling methodologies utilizing python and excel

Data Science Driven Model for Movie Recommendation System 2023

- Designed and implemented a movie recommendation, utilizing a least squares regression model to predict user ratings with high accuracy
- Scraped hundreds of users' movie rating data from Letterboxd.com

Certifications

CompTIA ITF+; 2019

IC3 Living Online; 2019

Microsoft 365; 2020

CPR; 2022

Skills

Languages: English (Native), Japanese (Fluent)

Programming Languages: Java, Python, HTML, CSS, JS, C, SQL, PHP, Assembly,

Technologies: Git, TensorFlow, AWS, React, MySQL, Firebase, Figma,

Other: Adobe Photoshop, Adobe Premiere Pro, Microsoft Word, Excel, PowerPoint