

# Haekyu Park

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## Education

### Georgia Institute of Technology

Ph.D., Computer Science

Advisor: Dr. [Polo Chau](#)

Aug 2018 - Dec 2023

### Seoul National University

B.S., Computer Science and Engineering

Graduated with honors (Cum Laude)

Mar 2012 - Aug 2017

## Work Experience

### Stripe, Remote

- Machine Learning Engineer
- Nov 2023 - Jan 2025
- Developed and enhanced ML models for detecting fraud transactions.
  - Investigated and resolved degraded performance in a fraud detection model by redesigning an unrealistic labeling strategy, improving prediction performance.
  - Fine-tuned a fraud dispute prediction model and optimized performance for specific target regions.
- Streamlined the training data generation processes on Stripe's ML pipeline, accelerating experimentation across Stripe's ML ecosystem.

### Stripe, Seattle, WA

- Machine Learning Engineering Intern
- May 2022 - Aug 2022
- Mentor: Revanth Rameshkumar
- Designed and implemented a deep neural network for detecting fraud transactions, highlighted in [this blog](#). The model's advanced design reduced the time to train our model by over 85% (to less than two hours), significantly increasing the volume of fraud transactions detected.

### Microsoft Research, Redmond, WA

- Research Intern
- Jun 2021 - Aug 2021
- Mentor: Gonzalo Ramos
- Developed an interactive system enhancing users' ability to re-find previously encountered online information.

### NVIDIA, Santa Clara, CA

- AI Infrastructure Software Intern
- May 2020 - July 2020
- Mentor: Joe Eaton, Brad Rees, Bartley Richardson

- Developed a visual graph analytics tool, designed for interactive and real-time analysis of large graphs, by leveraging the power of GPU acceleration.

#### **NVIDIA, Austin, TX**

- Data Science Intern
- May 2019 - Aug 2019
- Mentor: Bartley Richardson, Brad Rees, Joe Eaton
- Developed and demonstrated an approach to flagging anomalous cyber-network communications in a large graph, by using a combination of structural graph features and advanced graph analytics. The end-to-end solution was implemented using NVIDIA RAPIDS, and this project was presented at **KDD'19 NVIDIA RAPIDS tutorial**.

## **Honors and Awards**

#### **Rising Stars in EECS, 2022**

**Rising Stars in EECS**, Hosted at the University of Texas at Austin

#### **J.P.Morgan PhD Fellowship, 2021**

**J.P.Morgan PhD Fellowship** for my PhD work "Human-centered AI: Interactive Scalable Interfaces for Trustworthy and Safe AI"

#### **"Thank a Teacher" Award, 2019**

Center of Teaching & Learning (CTL), Georgia Institute of Technology

#### **Moon-Jung Chung Scholarship, 2019**

KOCSEA (The Korean Computer Scientists and Engineers Association in America)

#### **National Scholarship for Science and Engineering, 2019**

National Scholarship for Science and Engineering

## **Skills**

#### **Programming Languages**

- Python, SQL, Java, Scala

#### **ML Frameworks**

- TensorFlow, PyTorch, scikit-learn, etc

#### **MLOps and Infrastructure**

- Airflow, AWS, Docker, Weights & Biases, Prometheus

#### **Scalable Data Processing**

- Apache Spark