

Brian Hyunjun Kim

845-825-4576 | hk2994@nyu.edu | [linkedin.com/in/briankim00119](https://www.linkedin.com/in/briankim00119) | [portfolio: briankim.pro](https://briankim.pro)

TECHNICAL SKILLS & CERTIFICATIONS

Certification: AWS Certified Developer - Associate (Jan. 2025)

Languages: Python, C++, C#, Java, JavaScript, TypeScript, SQL, Ruby, HTML, CSS

Frameworks/Libraries: FastAPI, React, Next.js, React Native, Ruby on Rails, Flask, NumPy, Pandas, Material UI

Tools: Claude Code, AWS, Kubernetes, Docker, Jenkins, Prometheus, PostgreSQL, MongoDB, Node.js, Git, ML

EXPERIENCE

Apple

May. 2025 – Aug. 2025

Software Engineer Intern

- Redesigned and migrated 6 fragmented **Oracle databases (60M+ entries)** to a unified **PostgreSQL** schema, reducing maintenance overhead and eliminating duplicate data across stability analysis systems
- Migrated **Ruby on Rails** to **Next.js**, improving performance and supporting team's platform modernization
- Built automated data migration pipeline with cronjobs for a service processing crash logs from every Apple device
- Deployed containerized services using **Docker** and **Kubernetes** with **Jenkins** CI/CD pipelines
- Implemented app classification logic using crash count thresholds to prioritize top crashing applications

Samsung Electronics

Jun. 2024 – Aug. 2024

Software Engineer Intern

- Automated Kubernetes monitoring system with Prometheus and Flask for real-time resource optimization
- Optimized cluster resources, reclaiming **2000 vCore** CPU and **6000 GiB** memory from underutilized namespaces
- Developed a resource monitoring dashboard for DKS (DS Kubernetes Service for Samsung Electronics) with **Kubernetes**, **Prometheus**, **Flask**, and **PostgreSQL** to track historical namespace usage and admin activities
- Implemented automated email notification service using **Kubernetes CronJob** and Knox API for resource alerts
- Constructed CI/CD pipeline using Jenkins for automated deployment of monitoring application on DKS

New York University

Jan. 2024 – May. 2025

Databases Teaching Assistant

- Held in-person lecture to **60+ students**, covering end-to-end web app development using **Flask** and **MySQL**
- Conducted weekly office hours, offering guidance in debugging and reinforcing **RDBMS** and **SQL** query

EdgeworthBox

Jan. 2023 – Aug. 2023

Software Engineer Intern

- Achieved a **25% reduction** in processing time by developing an RFP/RFQ form generator using **React**
- Processed **2M+ procurement records** and integrated AWS services (**S3**, **RDS**, **Lambda**) for scalability

Republic of Korea Army

Jun. 2020 – Dec. 2021

Telecommunication Specialist, Sergeant

- Established secured data networks for encrypted communication by using the military communication systems
- Sharpened teamwork skills and leadership through a variety of squad training with comrades and commanders

PROJECTS

ML-Driven Equity Trading System | *LightGBM*

Sep. 2025 – Present

- Trained and deployed an AI trading system with daily rebalancing, feature computation, and inference pipelines
- Achieved a **1.6 Sharpe ratio** and **2.0 Sortino ratio** with an 8% max drawdown in live equity trading

Self-Hosted Kubernetes Cluster on AWS EC2 | *Kubeadm, Terraform, Jenkins*

Mar. 2025 – May. 2025

- Deployed a Kubernetes cluster (kubeadm) on AWS EC2 instances and automated infrastructure with Terraform
- Implemented CI/CD pipelines with Jenkins and deployed applications into a production Kubernetes environment
- Configured **AWS Load Balancer Controller** to provision ALB with SSL termination and subdomain routing

EDUCATION

New York University

Master of Science in Computer Science

Sep. 2025 – May. 2026

Bachelor of Science in Computer Science

Sep. 2019 – May. 2025

- Honors: BS/MS Merit Scholarship (50% MS Tuition Award), Dean's List
- Minors: Management, Integrated Design & Media