Jun Kim

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LinkedIn

EDUCATION

Boston University | Boston, MA — Expected May 2027

Bachelor of Arts in Computer Science, CGPA: 3.6

Coursework: Core CS (DSA, Computer Systems, Foundations of Data Science, Programming Languages/Compiler Engineering), Math (Discrete, Linear Algebra, Probability/Combinatorics), Programming (Python, Java, C, Assembly)

SKILLS

Programming:

Proficient: Python, JavaScript, HTML/CSS

Experienced: Java, C, C++, Bash/AWS console, x86 Assembly

Tools & Frameworks:

Machine Learning: PyTorch, TensorFlow, Hugging Face, Vertex AI

Web Development: React, Node.js

Databases: MongoDB, SQL

Cloud Services & Deployment: Google Cloud Platform (GCP), Amazon Web Services (AWS), Kubernetes, Vercel

Hardware: Raspberry Pi 4, NVIDIA Jetson Orin Nano, Unitree 4D L1 RM LiDAR, MPU-6050 IMU, DHT22 Temp/Humidity Sensor, NI USB-6002 DAQ, I2C

WORK EXPERIENCE

Researcher – LiDAR Remaining Useful Life prediction — June 2025 – August 2025

Georgia Tech Manufacturing Institute

- Engineered a **ROS2-based hardware-software data collection testbench** (Raspberry Pi 4 + Jetson Orin Nano) integrating LiDAR, IMU, temperature/humidity sensors, and DAQ in collaboration with Hyundai Motors.
- Built a **React + Node.js UI/REST API** to graph **10,000+ time-synchronized samples in real time**, reducing visualization latency by **99.8% (120s → <200ms)**. [Testbench] | [Data collection Demo] | [3D Graph (LiDAR Point Cloud) Demo]
- Authored comprehensive documentation and setup guide to ensure smooth project handoff and future development. [System Walkthrough]

ACHIEVEMENTS

Welcome back MiniHack – Best Technical Execution — October 2024

Boston University

- Contributed backend services for a four-person hackathon team that won *Best Technical Execution* (out of 64 teams, 4 award categories).
- Featured in [BU Spark! Hosts Welcome Back Mini Hack, Empowering Students to Tackle Social Challenges]. [Demo Link]
- Built a voice assistant on Google Vertex AI trained on a 2MB PubMed-based dataset, using four medications (3 SSRIs + 1 antipsychotic) and four symptoms (insomnia, moodiness, psychosis, anxiety attacks) to detect mismatches between prescribed medications and reported symptoms.