KAIJI FU

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GitHub

EDUCATION

University of North Carolina at Chapel Hill – Chapel Hill, NC — Expected Jun 2028
Computer Science, B.S.

- **Coursework:** Discrete Mathematics, Data Structures and Analysis
- **GPA:** 4.00

Honors and Awards

- Carolina Scholar (full scholarship)
- Honors Carolina

EXPERIENCE

General Safety – Greenville, NC — May 2023 - present
Founder/CEO

- Founded a startup w/ team of 5 to build a smarter stop-arm camera for 100X less than competitors ($30 vs. $3,000)
- Built an IoT camera on ESP32 microcontroller with C++and a web interface with JS/React
- Architected AWS cloud infrastructure with NoSQL DB, RESTful APIs, and an MQTT to communicate with cameras.
- Coordinating closely with stakeholders and working on deploying on Pitt County Schools' 200+ buses
- Received a $1,000 grant from Amazon

University of North Carolina at Chapel Hill – Chapel Hill, NC — Sep 2024 - present
Researcher

- Working with Dr. Faisal Syed at UNC School of Medicine on using deep neural networks to analyze ECGs.

Pitt Pirates Robotics – Greenville, NC — Aug 2020 - June 2024
Software/R&D

- Trained a deep neural network with PyTorch to achieve real-time object detection.
- Deployed model on a Linux-based CUDA-enabled edge processor
- Built website

East Carolina University – Greenville, NC — Feb 2020 - April 2023
Lead Author

- Conducted research into applying federated machine learning in the field of healthcare data analysis.
- Used TensorFlow-Federated to train federated models and Pandas/NumPy to perform data processing.
- Presented my findings at East Carolina University's ISS Symposium.

LEADERSHIP AND COMMUNITY INVOLVEMENT

The Daily Reflector – Greenville, NC — Dec 2022 - present
Columnist

- Regularly featured voice on issues ranging from technology to economic policy.

Mozilla – San Francisco, CA — Dec. 2023 - present
Open-Source Contributor

- Contributor to bugbug, a Mozilla project aimed at using ML to classify bugs

ADDITIONAL INFORMATION

- Highly proficient in Python, JavaScript, and Java.
- Proficient in Rust and C/C++.
- Experienced in cloud applications, full stack development, machine learning, and computer vision.
- Fluent in Chinese.