Kay Huynh

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Portfolio: http://kayhuynh0110.github.io/

EDUCATION

Master of Science in Computer Science   January 2025 - December 2026
The University of Texas at Austin   GPA 3.9

PROFESSIONAL WORK EXPERIENCE

TickerTrends - Software Engineer | Cybersecurity   March 2025 - Present
- **Optimized** backend API endpoints using **Java**, **Node.js**, **Express**, **PostgreSQL**, and **AWS EC2**, improving response time by **40%** and supporting **10,000+ daily requests** through efficient data processing and output formatting.
- **Upgraded** a **Chrome Extension** using **JavaScript**, **React**, and Google Trends API, deployed via **AWS**; integrated middleware security controls (rate limiting, token auth), reducing **brute-force** attempts by **95%**.
- **Hardened** web assets by configuring security headers, **CSP** policies, and **HTTPS** enforcement, cutting **XSS** and **clickjacking** risk exposure by **70%** across **100%** of production endpoints.
- **Engineered** and launched a robust financial KPI extraction and recovery pipeline using **Python, OpenAI API**, and **FAISS**, boosting data accuracy by **40%** and reducing gaps across **10-Q** and **10-K reports** for **400+** companies.

Caterpillar Inc. - Team Leader | Senior Project: Web-Based UI for CHP Tool   September 2024 - December 2024
- **Led a 5-member senior project team** to develop a web-based UI for Caterpillar's CHP feasibility tool, cutting manual data entry by **60%** and increasing recommendation speed by **30%**.
- **Built .NET backend services** and **Angular frontend** to retrieve real-time pricing from EIA APIs and manage **250+ customer configurations**, improving data flow and system reliability.
- **Architected MySQL database schemas** to store customer records, generator specifications, and power/thermal metrics, supporting **100%** of planned configurations with scalable storage.
- **Integrated Utility Import Requirement (UIR) logic**, enhancing the accuracy of on-site generation recommendations and minimizing configuration errors by **40%**.

Citigroup | Forage - Technology Software Development Intern Virtual   September 2024 - December 2024
- **Created a UML state diagram** for Citi's loan system, improving workflow clarity and cutting onboarding time by **15%**.
- **Proposed a credit risk modeling system** using **Python** and **.NET** integration for deployment, incorporating credit scores and debt ratios to boost accuracy by **20%** and reduce bias.
- **Built a Java application** with Yahoo Finance API, **streamlining** stock data capture and **JavaFX** chart visualization, **improving** risk monitoring and **reducing** manual data work by **30%**.
- Leveraged **Gradle** for build automation, **OkHttp** for API communication, and **JUnit** for testing, enhancing application reliability and enhancing build errors by **30%**.

JPMorgan Chase & Co | Forage - Cybersecurity Engineer Intern Virtual   May 2024 - August 2024
- **Analyzed over 10,000 mobile money transactions** to identify and flag fraudulent activities, leveraging **Pandas, Python** and data science techniques to enhance fraud detection accuracy by **25%**.
- I**mplemented** security best practices using **OWASP Top 10** and **Django**, addressing web vulnerabilities and strengthening security.
- **Designed** and **trained a machine learning** model using **scikit-learn** to classify emails as spam or ham, improving security **by 15%.**
- Integrated **Django 2FA authentication** and **Python**-based role management frameworks to enhance access control, enforcing least privilege principles and decreasing unauthorized access incidents by **20%**.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, HTML, CSS, SQL, MySQL, C++, C, Bash, Prolog, Assembly.
Frameworks & Operating Systems: Angular, React, Spring, Spring Boot, .NET, Django, PHP, JavaFX, Gradle, Node.js, Express, Linux.
Software Tools: Postman, Git, PyCharm, VS Code, Visual Studio, Eclipse, IntelliJ IDEA, Anaconda, Microsoft Offices, Google Workspace.
Databases & Libraries: PostgreSQL, MySQL, Redis, Pandas, NumPy, Matplotlib, Hibernate, scikit-learn, Tailwind CSS

CERTIFICATIONS & LICENSES

IBM Full Stack Software Developer Professional Certificate | IBM   January 2025 - Present
IBM and ISC2 Cybersecurity Specialist | IBM   November 2024 - Present
Google Cybersecurity Professional Certificate | Google   July 2024 - Present
Amazon Web Services Cloud Practitioner Certificate | Amazon   April 2024 - Present
Career Essentials in Cybersecurity by Microsoft and LinkedIn | LinkedIn & Microsoft   February 2024 - Present

AWARDS & HONORS

Phi Theta Kappa Academic Excellence Scholarship | Phi Theta Kappa Honor Society   January 2023 - Present
State Farm STEM Scholarship   June 2022 - Present