Kevin Chong

kevin.chong147@gmail.com | 703-300-3983 | linkedin.com/in/kevin-h-chong | github.com/kevinhc2

EDUCATION

University of Maryland, College Park (GPA: 3.75)
BS in Computer Science and Minor in Mathematics (Aug 2023 – May 2026)

EXPERIENCE

Knack Works by Jacobs Chantilly, VA
Software Engineer Intern *May 2025 - Aug 2025*

- Enabled scalable and secure dependency ingestion for a private software registry by building a **Rust** application that uses Tokio for asynchronous I/O.
- Decreased time to deployment from hours to minutes for **Rust** applications by building a **Gitlab CI/CD pipeline**.
- Simplified management of large applications by creating **Helm** charts written using **Golang** templating.
- Increased visibility for internal services by containerizing and deploying an application dashboard using **Podman** and **Kubernetes**.

Robotics Algorithms & Autonomous Systems (RAAS) Lab at UMD College Park, MD
Machine Learning Undergrad Research Assistant *Nov 2024 – May 2025*

- Enabled autonomous 3D scene exploration by implementing an optimizer for camera view selection in **PyTorch**.
- Cut down data collection time from weeks to hours by writing a **Python** script to collect images in photo-realistic virtual environments.
- Streamlined model training by creating TensorBoards to visualize loss and reconstruction quality.

Visalaw.ai Remote
Data Intern *Jun 2024 – Aug 2024*

- Decreased data entry time by 99% by using **Selenium** to automate the document collection process.
- Curated corpus for LLM training by using **Pandas** for data cleaning.
- Streamlined the process of exporting newly created datasets through scripting in **Python**.

LEADERSHIP

App Dev Club at UMD – *Machine Learning Tech Lead*
Led 13-person team in collaboration with The MITRE Corporation to develop a malware analysis platform

- Architected a private and offline malware analysis AI assistant by using **Ollama** to run a **Llama** 3 LLM and **LangChain** for Retrieval-Augmented Generation (RAG).
- Improved AI pipeline reliability by creating data flow in **Apache NiFi** to store generated security reports in an **Elasticsearch** database.
- Increased chatbot response time by 40% by restructuring **FastAPI** endpoints.

PROJECTS

Tailored Talk – *AI curated language lessons*

- Achieved personalized learning content using **Gemini** API for app built with **Flask** and **Expo (React Native)**.

Mogulator – *Full stack app to detect human poses in a drone feed*

- Selected as the runner up in the hardware category for Bitcamp, the largest collegiate hackathon on the east coast with over 500 participants.

SKILLS

Languages: Python, Rust, Golang, JavaScript, HTML, CSS, C++, C, Java
Frameworks & Libraries: FastAPI, LangChain, PyTorch, Pandas, scikit-learn, React
Infrastructure & Tools: Docker, Kubernetes, Helm, GitLab CI/CD, AWS, Linux, Elasticsearch, MongoDB, Apache NiFi