

Kevin Chong

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Education

University of Maryland, College Park

GPA: 3.93 / 4.00

Awards: Dean's List, President's Scholarship

B.S. in **Computer Science**, Minor in **Mathematics**

Expected Graduation: **May 2026**

Courses: Algorithms, Organization of Programming Languages, Intro to Data Science, Computer Vision, Linear Algebra, Introduction to Probability Theory, Physics, Computer Systems, Discrete Structures, AP Comp Sci A

Relevant Skills:

Languages: Python, Java, C, C++, Ocaml, Rust, JavaScript/HTML/CSS, SQL

Frameworks/Libraries: Keras, PyTorch, Pandas, NumPy, OpenCV, Node.js, Express.js

Tools: Git, UNIX-based operating systems (including Linux), AWS (SageMaker, Lambda, S3)

Work Experience

- **Software Engineering Intern**

Visalaw.ai, May 2024 – August 2024

- Developed an automated data-scraping tool using **Selenium** and **Scrapy** which reduced data-entry tasks from **days to under an hour**
- Created a data pipeline in **Python** that used **Pandas** to clean and normalize the feature columns, before storing the data in a **SQL** database
- Currently in a part-time consultant role advising on regression testing with **Cypress** and the scheduling of data-mining tasks by utilizing **S3** and **Lambda**

- **Instructor**

Fairfax Collegiate, June 2023 – August 2023

- Taught variety of courses at summer camp including Drone Flying, SAT Prep, and 3D-Printing
- Developed a programming curriculum that was integrated into the organization's syllabus for the Drones class

- **Head Teacher's Assistant**

Fairfax Collegiate, June 2022 – August 2022

- In charge of the distribution and stocking of materials for the Chantilly summer camp location.
- Acted as an assistant to the Location Director. Primary substitute for absent teachers. Accommodated the needs of campers and their guardians.

Projects

- **GDPredictor**

- Machine learning pipeline built in **Amazon Sagemaker**.
- Used **World Bank API** to query for then preprocess World Development Indicators (WDI) data.
- Implemented feature selection and feature engineering tools including **random forests** to refine the dataset and reduce dimensionality.
- Applied **support vector machine (SVM)** and other classification algorithms to determine whether a country's economy would grow or shrink, with an accuracy of **~90%**

- **CourseLLM**

- Invoked **REST APIs** to aggregate information on courses offered at the University of Maryland, stored the data using **VectorDB**
- Deployed a Llama 3 model (**LLM**) using the **Hugging Face** platform. Constructed LLM responses to user prompts by querying the vector database.

- **Avoiding Extinction with NEAT**

- Simulated infamous Chrome dinosaur game and used the *NeuroEvolution of Augmenting Topologies* (**NEAT**) genetic algorithm to train an AI to score over **30,000** after just 2 generations

Activities

- Maryland Unmanned Aerial Systems (MUAS)
- Volunteer CS Instructor for students with ASD

Fall, 2024
2021 to 2023