


# DAVEN CHANG

University of Maryland College Park  
B.S. in CS/ML

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## SUMMARY

Passionate about software development and machine learning with a growing interest in Generative AI. Expansive Python skills and experience developed through countless personal projects. Also comfortable with a variety of other programming languages. Collaborative team player with a strong work ethic and a passion for learning and growth.

## SKILLS

**Languages:** Python, Java, C, C++, Mojo, HTML, CSS, Javascript, Arduino.

**Technologies:** VSCode, Git, Linux, Numpy, Pandas, Tensorflow, Keras, OpenCV, PyTorch, Mediapipe, Threading, Typing, Pygame, RegEx.

## EDUCATION

8/2023 - Present	<b>CS/ML @ University of Maryland College Park</b> Member of Robotics at Maryland, the BigThink AI club, and the Taiwanese American Student Association (TASA). Researcher in the First-Year Innovation and Research Experience (FIRE) program.	<b>School</b>
7/2023 - 8/2023	<b>Inspirit AI - AI Scholar</b> Built cifar-10 classifiers with KNNs and CNNs. Combined NLP and DNN through LSTMs, RNN, and transformers, to predict stock prices from news and market history.	<b>Program</b>
6/2023 - 6/2023	<b>BWSI - COGWORKS</b> Completed pre-requisite course on Autonomous Cognitive Assistants. Learned version control with Git, and advanced knowledge of Python and NLP techniques.	<b>Program</b>
8/2019 - 5/2023	<b>Oakton High School</b> Graduated with honors. Participated in track and field, marching band, and concert band. Also joined clubs such as game dev, finance, and business club.	<b>School</b>

## PROJECTS

Hackathon	<b>Helping Hands</b> Developed a program that utilizes computer vision and the onboard webcam to allow users to move, click, and scroll the mouse remotely using their hands. Used Python, mediapipe, cv2, numpy, pyautogui.	<a href="https://devpost.com/software/helpinghands-myl8ox">https://devpost.com/software/helpinghands-myl8ox</a>
Website	<b>davenc.dev</b> Started work on a personal website as a way of learning HTML, CSS, and JavaScript. Learned networking principles such as DNS, IP addresses, and http/tcp as well. Planning to incorporate Node.js and other frameworks	<a href="https://davenc.dev">https://davenc.dev</a>
Personal	<b>AI-Stuff</b> A private repository containing personal AI projects. Projects include classifiers for mnist and cifar, reinforcement models for games such as 2048 and snake, computer vision models such as a hand tracker and iris tracker, and simple regression prediction models.	<a href="https://github.com/daven-c/AI-Stuff">https://github.com/daven-c/AI-Stuff</a>
Personal	<b>AIJohns</b> Currently leading a group of friends in the hands-on development of AI/ML projects. Current projects include MNIST GAN for generative, iris tracking for computer vision, and Tetris agent for reinforcement.	<a href="https://github.com/daven-c/TheAIJohns">https://github.com/daven-c/TheAIJohns</a>

## EXPERIENCE

2/2023 - Present	<b>Freelance</b> <ul style="list-style-type: none"><li>Developed first paid website, jewel-inthelotus.com.</li><li>Developed automated discord bots that managed servers, initiated events, created games, and boosted member interaction.</li><li>Built mock games including 2048 and Snake using the pygame library.</li></ul>	
8/2021 - 6/2023	<b>Tutor</b> <ul style="list-style-type: none"><li>Tutored students ranging from K-10 in core subjects including math, science, history, and english.</li><li>Tutored every Wednesday and Sunday.</li></ul>	<b>Fairfax Regional Library</b>

## COURSEWORK

- Intro to Object Oriented Programming I/II, Data Structures and Algorithms, Intro to Computer Systems, Discrete Structures, Organization of Programming Languages, Algorithms, Calculus I/II, Linear Algebra.