Michael Chen

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Skills: Python, C, Java, Javascript, Node.js, PyTorch, LabVIEW, ROS, UI/UX Research, React

Education:

University of Massachusetts, Amherst | Amherst, MA | *(Graduation: December, 2023)*

- Pursuing a *BS in Computer Science*
- *Relevant Coursework:* Algorithms, Discrete Mathematics, Data Structures, Machine Learning, Digital Forensics, Computer Systems, Search Engines, Human Computer Interaction, Software Engineering

Yonsei University | Seoul, South Korea | *(September - December, 2022)*

- Spent a semester studying at a top 3 university in South Korea taking economics related classes.

Experience:

Researcher| UC Riverside| Riverside, CA | *(June 2023 – August 2023)*

- Worked with PhD students and professors on a paper regarding the use of ML and NLP to detect Covid-19 misinformation in news articles.
- Implemented the use of kernels and matrix decomposition in the classification algorithm to improve the accuracy of the model by up to 10%.

Tech-Start Intern | Liberty Mutual | Dover, NH | *(May 2022 – August 2022)*

- Assisted in the transition from on-site databases to cloud-based databases using Snowflake.
- Learned the functions of old on-site databases, and then attempted to recreate the same functions in new Snowflake databases using node.js.

Intern | Boston College | Chestnut Hill, MA | *(July 2019 – August 2019)*

- Assisted Boston College graduate researchers automate data collection using Python.
- Data had previously been collected manually, and the machines required constant attending.
- After the introduction of automated data collection, the machines were able to operate independently.

Projects:

QuickReads (2023): A mobile app that allowed users to read AI-summarized news articles

- App collected news articles from an API related to a user query, then used chat-gpt to summarize them
- Integrated Google O-Auth login, and had a functioning bookmark and settings page.
- Front-end was written in React native, back-end was written in Python and hosted on AWS

Custom Search Engine (2023): Fully functional search engine, created as final project for a class.

- Capable of searching a large academic database for relevant documents when given a query
- Used the BM25 algorithm to generate a ranked list of potentially relevant documents

FaceRec (2022): a machine learning program capable of recognizing facial features.

- Written in Python using PyTorch and trained on the CelebA database.
- Program was able to accurately determine the facial features of subjects who inserted a selfie.

WaySub (2019): A website that allowed high school students to pre-order deli sandwiches.

- The project was highly successful during its 2 month trial run, and saw considerable use.
- Website was coded using HTML, CSS, and Javascript, with mongodb as a database.