# CAIDEN FUNG

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## EDUCATION

**University of Michigan**                                                                                      **Ann Arbor, MI**
*Bachelor of Science in Computer Science*                                           *Sept. 2022 – May 2025 (Expected)*
- **GPA:** 3.68
- **Relevant Coursework:** Database Management Systems, Data Structures and Algorithms, Web Systems, Computer Security, Computer Organization, Foundations of Computer Science, Discrete Math, Statistics and Data Analysis

**Michigan State University**                                                                              **East Lansing, MI**
*Completed Freshman year in Data Science*                                                        *Sept. 2021 – May 2022*
- **GPA:** 3.75
- **Relevant Coursework:** Computational Modeling and Data Analysis I & II, Introduction to Data Science

**Languages:** C++/C, Python, PHP, Javascript, Java, Assembly         **Backend:** SQL, AWS
**Frontend:** HTML, CSS, Flask, React                                                       **Tools:** Git, Ubuntu, WSL, RStudio

## WORK EXPERIENCES

**University of Michigan Michigan Education Data Center**                                        **Ann Arbor, MI**
*Data Programmer Intern*                                                                                 *Sept. 2024 - Present*
- Matched millions of student records from the state of Michigan with research datasets
- Wrote a script in Python to preprocess state student data and research data for matching

**Ticket Socket Inc.**                                                                                                       **Remote**
*Software Developer Intern*                                                                            *May 2024 - Aug. 2024*
- Programmed and deployed a Python barcode and QR code generator application on AWS, speeding up EC2 instances by 15% and removing disk space usage for barcode and QR code images entirely
- Automated file type conversion using PHP and expanded number of accepted file types from 1 to 7

**NanoNests**                                                                                                                 **Remote**
*Website Design Intern*                                                                                 *Apr. 2024 - May 2024*
- Created a web page featuring a new product with multiple bedroom configuration options for sale

## PROJECTS

**Healthcare HelperBot**                                                                                             **Sept. 2024**
- Integrated a web application using Google Labs' AI Breadboard, Cartesia's Sonic API, along with React and Flask that can conduct patient interviews and generate chat reports for medical database records
- Consists of 3 Gemini 1.5 Flash AI that communicate information with one another
- Won 2nd place for "Best Google AI Breadboard Application" at MHacks 2024

**Pipeline MapReducer**                                                                              **Feb. 2024 - March 2024**
- Implemented a MapReduce distributed system with Python sockets and multithreading with the ability to process files with over 150,000 lines in under 10 seconds
- Enhanced the program to handle over 100 worker computers simultaneously when carrying out tasks

**Instagram Clone**                                                                                     **Jan. 2024 - Feb. 2024**
- Leveraged Python, HTML, SQL, React and Javascript to create Instagram-like social media page
- Integrated application with a REST API and hosted on AWS as a client-side website scaling to over 500 active users

**Pokémon Popularity**                                                                               **Oct. 2021 – Dec. 2021**
- Utilized Python to model 5 different Google Trends datasets to interweave 30 years of historical Pokemon franchise data
- Analyzed data to understand which products and events sparked the most Pokémon public discourse online

## ACTIVITIES

**Michigan Data Science Team**                                                                              **Ann Arbor, MI**
*Project Team Member*                                                                                  *Sept. 2023 – Apr. 2024*
- Created a network intrusion system in Python using scikit-learn and a K-nearest neighbors machine learning algorithm to distinguish cyber attacks from normal network activity with 99% accuracy

**Michigan EcoData**                                                                                             **Ann Arbor, MI**
*Project Developer*                                                                                        *Sept. 2023 – Apr. 2024*
- Developed a CNN program that can classify images of plants by species with 94% accuracy
- Trained the algorithm on datasets containing 102 flower species and categories
- Updated organization website to include over 30 member profiles and 6 ongoing projects

**HackBlue**                                                                                                           **Ann Arbor, MI**
*Member*                                                                                                    *Sept. 2022 – Dec. 2022*
- Instructed 20 Ypsilanti Community Middle School students in EMU Bright Futures program on basic computer science concepts and video game design