

MARCUS ALEXANDER SCHUBERT

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EDUCATION

- **University of Michigan**, Ann Arbor, MI

B.S.E. Computer Engineering

Minors in Math and Business, James B. Angell Scholar

GPA: 4.0/4.0

Graduation: May 2025

Past Coursework: Data Structures and Algorithms, Computer Organization, Linear Algebra, Multivariable & Vector Calculus

Current Coursework: Machine Learning, Honors Differential Equations, Probability, Circuits

Extracurriculars: Michigan MagnUM Varsity Ultimate Frisbee, Michigan Pops Orchestra

SKILLS

Programming Languages: Python, C/C++, SQL, Go, MATLAB, Swift

Frameworks, Libraries, Tools: Tensorflow, Keras, Pandas, NumPy, Matplotlib, Git/Version Control

Spoken Languages: (Fluent): English, (Conversational): Mandarin, German

Other: Violin study (15 years)

HONORS & AWARDS

Scored a 1600 on SAT: 99th percentile

2019

AIME (American Invitational Mathematics Examination) qualifier: top 2.5% of AMC 10 test takers

2018

WORK EXPERIENCE

- **Google**, Sunnyvale, CA

May 2023 – August 2023

Software Engineering Intern

Go, SQL

- Contributed to the customer management system for Google Cloud Platform's Chronicle enterprise security service
- Developed a module on Chronicle's customer management server which gathers details of the customer provisioning process for 3 customer classes, designed a database to archive this data, and released this job to be run daily
- Designed a dashboard used by Google customer experience engineers and Google Cloud partners like Mandiant to visualize the customer provisioning process and presented results to 20+ engineers including Chronicle executives

- **Google**, New York, NY

May 2022 – August 2022

Software Engineering Intern

Python, SQL

- Designed and updated archival database using Python and SQL to track ownership of over 16K tests as part of effort to strengthen test owner relevancy in Google Ads at Google's NYC office
- Developed an analyzer in Python which warns all Google Ads engineers about potential test owner
- Built a command line tool in Python for engineers to use to automate the ownership migration process

PROJECTS AND LEADERSHIP

- **Biologically Inspired Robotics and Dynamical Systems Laboratory**, Ann Arbor, MI

January 2023 – Present

Quadcopter Team Lead, Research Assistant

NumPy, Matplotlib, Python, C++

- Leading fellowship-funded project on Multi Legged Robots and Animal Motion Research (MuRoAM) Team
- Simulated quadcopter motion with asymmetric frame and motor angles using the Python Matplotlib library
- Contributed to a team refactoring C++ library to control Dynamixel servo motors using packet communication

- **Myelin Tech Space LLC**, Ann Arbor, MI

February 2023 – Present

Co-Founder, Finance Director

Organizational Skills

- Managed budgeting and acquiring equipment for summer-long neurotech hacker house
- Led publicity campaign to grow neurotech organization membership from 10 to 40+ members
- Collaborating with University of Michigan neuroscience and biology labs to solve electrical and computer engineering-related problems that labs do not have the resources to address themselves

- **Predicting Drug-Kinase Binding Affinities using Convolutional Neural Networks**

September 2018 – May 2020

Independent Researcher

Keras, Tensorflow, NumPy, Matplotlib, Python, SQL

- Trained and tested convolutional neural networks with the Keras API to predict binding affinity between drug compounds and proteins, varying model structure and achieving an overall prediction accuracy of 73%
- Gathered data from multiple sources and created an SQLite database to manage and clean data

- **Simulating the Collapse of an Interstellar Dust Cloud due to Gravity**

September 2020 – May 2021

Independent Researcher

NumPy, Matplotlib, Newtonian Physics, Python

- Leveraged linear algebra and Python's Matplotlib to model particles moving through space under the influence of gravity
- Circumvented the three body problem and produced results supporting solar system formation theory