

AGAM KOHLI

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EDUCATION

University of Michigan

Bachelor's of Science in Engineering

📅 August 2020 – April 2023

- Computer Science
- 3.7/4.0 GPA
- Core Member of **Michigan Hackers's** Open Source Development Team

EXPERIENCE

Software Engineer Intern

General Motors

📅 June 2021 – August 2021 📍 Detroit, MI

- Augmented vehicle emergency systems by optimizing the OnStar Activity Map webapp to allow easier and more intuitive access of emergency systems
- Migrated from running spark jobs in each data center for our **Hadoop** cluster to implementing replication
- Wrote, tested, and debugged using **Java**, **JavaScript**, and **Chrome Developer Tools**
- Leveraged **Maven** for backend build automation and **WebLogic** for webapp deployment

ML/Image Processing Researcher

University of Michigan Biomedical & Clinical Informatics Lab

📅 Sep. 2020 – April 2021 📍 Ann Arbor, MI

- Developed **Image Processing** software to analyze abdominal CT scans for segmenting pancreas using **Machine Learning** in **MATLAB**.
- Paid research under Dr. Soroushmehr on behalf of the Undergraduate Research Opportunity Program
- Achieved Dice-Sørensen Similarity Coefficient of 54.33% using U-NET Convolutional Neural Network

M-STEM Student Council

University of Michigan

📅 August 2020 - PRESENT

- Furthered engineering capabilities with math and programming courses in Michigan's Learning Community M-STEM.
- Hosted service, social, and academic events
- Lead a **Python** tutorial for High School students interested in coding

PROJECTS

CSGO Economy Calculator

🌐 github.com/agamkohli9/csgo-economy-calculator.git

- Designed program using **K Nearest Neighbor ML algorithm** from **Python** framework **Scikit-Learn** to predict optimal round type strategy given teams' economy in popular video game Counter Strike: Global Offensive.
- Trained model with CSV file containing statistics of 9420 professional rounds
- Average of 66.37% accuracy

PROGRAMMING SKILLS

Python Java C++ MATLAB
JavaScript Linux Bash Git
Hadoop Agile Scrum

CERTIFICATIONS

SAFe 5.0 Practitioner

- Scaled Agile Framework team member responsible for using Scrum, Kanban, and Extreme Programming

COURSEWORK

Data Structures Algorithms
Web Systems Intro Machine Learning
Discrete Math

STRENGTHS

Teamwork
👥 Worked in Agile teams, completing user stories by pair programming

Volunteering
🚌 Member of team assigned by Governor to help low-income Michiganders improve their mobility through updating the transit system using data analysis

Open Source Developer
🐧 Avid contributor of the **Linux** Kernel: the world's largest open source project