

AGAM KOHLI

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EDUCATION

University of Michigan

Bachelor of Science in Engineering

📅 August 2020 – April 2023

- Computer Science
- 3.85/4.00 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**
- Applied **Agile**, **Scrum**, and pair programming methodologies
- 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

- Project: Image Processing for Detecting Pancreas
- Developed **Image Processing** software to analyze abdominal CT scans for segmenting the 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.
- Member of Student Council where we host 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 a 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.
- Model trained 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