

# AGAM KOHLI

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## EDUCATION

University of Michigan

**Bachelor's 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**
- 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