

AGAM KOHLI

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📍 Ann Arbor, MI

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EDUCATION

University of Michigan

Bachelor of Science in Engineering

📅 August 2020 – April 2023

- Major in Computer Science
- 3.85 GPA

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

Computer Science Researcher

University of Michigan Biomedical & Clinical Informatics Lab

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

- Project: Image Processing for Detecting Pancreas
- Paid research under Dr. Soroushmehr on behalf of the Undergraduate Research Opportunity Program
- Developed **Image Processing** software to analyze abdominal CT scans for segmenting the pancreas using **Machine Learning** in **MATLAB**.
- 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

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

Problem Solving
🔧 Furthered my coding skills by developing software on GitHub

Giving Back to My Community
🐧 Avid contributor of the **Linux Kernel**, the largest open source project ever