AGAM KOHLI

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○ github.com/agamkohli9

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 Open Source Software on GitHub