

Agam Kohli

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📍 Ann Arbor, MI

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EDUCATION

University of Michigan

Bachelor's of Science in Engineering

📅 August 2020 – April 2023

- Major: Computer Science
- 3.8/4.0 GPA
- M-STEM Student Council Board
- Michigan Data Science Team member

EXPERIENCE

Cybersecurity Intelligence Intern

Ford Motor Company

📅 May 2022 – July 2022 📍 Dearborn, MI

- Automated **ThreatConnect** tag and attribute source rename, merge, and deletion through **Rest API** calls and **MySQL** commands, helping Intelligence analysts better understand how indicators relate to each other.
- Validated 174 **Indicators of Compromise** to judge maliciousness of IPs, addresses, domains, URLs, and file hashes reported by the Detection team.
- Undertook the **Intern City of Tomorrow** project to design a way to improve mobility in urban environments using autonomous vehicles and advanced mobility technologies.
- Received a perfect score on my final presentation—the only time my supervisor has ever seen an intern get a perfect score.

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 **Python** and **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

PERSONAL PROJECTS

Street Fighter II AI

🌐 github.com/agamkohli9/street-fighter-ii-ai.git

- AI based on Deep Q **Reinforcement Learning** and **Convolutional Neural Network** that plays SNES game Street Fighter II
- Written using **Python** frameworks **PyTorch** for RL and CNN and **Gym Retro** for emulation.
- Wins 88% of matches compared to a random model that wins 23% of matches.

CSGO Economy Calculator

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

- Written using **K Nearest Neighbor ML algorithm** from **Python** framework **Scikit-Learn** to predict optimal round type strategy given teams' economy in video game Counter Strike: Global Offensive.
- Trained model with CSV file containing statistics of 9420 professional rounds with an average of 66% accuracy

PROGRAMMING SKILLS

Python

Java

C++

MATLAB

JavaScript

Linux

Bash

Git

Hadoop

Agile

Scrum

Lex/Yacc

CERTIFICATIONS

SAFe 5.0 Practitioner

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

COURSEWORK

Static/Dynamic Compilation

Operating Systems

Machine Learning

Algorithms

Computer Vision

Discrete Math

Web Systems

STRENGTHS

Teamwork



Worked in Agile teams, completing user stories by pair programming

Open Source Developer



Avid contributor of the **Linux Kernel**: the world's largest open source project