

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

EXPERIENCE

Cybersecurity Intelligence Intern

Ford Motor Company

📅 May 2022 – July 2022 📍 Dearborn, MI

- Automated **ThreatConnect** tag and attribute source renaming, merging, and deletion, saving an estimated X hours of manual work.
- Validated X Indicators of Compromise to judge maliciousness of IPs, addresses, domains, URLs, and file hashes reported by Detection.

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

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 X% of matches compared to a random model that wins X% 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 66.37% 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

Algorithms Machine Learning
Compiler Construction
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