## AMIT L. KRISHNAIYER

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### **EDUCATION**

## University of Illinois at Urbana-Champaign

Class of 2025

Bachelor of Science in Computer Science & Mathematics, Minor in Astronomy

- **GPA:** 4.0
- Relevant Coursework: Discrete Structures, Statistics and Probability 400, Fundamental Mathematics.

## Thomas Jefferson High School for Science and Technology

Class of 2022

• Relevant Coursework: Data Structures, Multivariable Calculus, Linear Algebra.

#### WORK EXPERIENCE

HireLogic, Natural Language Processing Intern

July 2022 - August 2022

- My work is used in HireLogic's new software that analyzes a candidate's performance in an interview.
- Employed **Natural Language Toolkit (NLTK)** and **sckit-learn** to identify and separate relevant questions from small talk in an interview transcript, so that only the candidate's responses to relevant questions are graded.
- Achieved a novel 87% accuracy in sorting interview questions using Support Vector Machines in my model.

### **Boston University,** Student Researcher

March 2020 - August 2021

- Researched under Professor David Starobinski (ECE) + team- results have future implications in autonomous vehicles.
- Utilized a Software Defined Radio (SDR) and reverse-engineering tools like **GNU-Radio** and **Inspectrum** to create a program to extract information from **Amazon Sidewalk** waves.
- The research created a distance/velocity-measuring radar that uses **5 magnitudes** less bandwidth than a traditional sensor with the same accuracy.
- Presented at BU RISE Program & New England Workshop on SDR 2021 conference.

#### Codice, Test Automation Intern

June 2021 - August 2021

- Improved Codice's test automation infrastructure for their healthcare billing webapp.
- Verified the functionality of a variety of features from calculations of total costs to downloading reports.
- Wrote 300+ test scripts in **Selenium** utilized **Jira** to track progress.

## Corsha, Test Automation Intern

July 2020 - August 2020

- Improved Corsha's test automation infrastructure (on the backend). Corsha is an API security company.
- Wrote automated scripts in bash that tested Corsha's Distributed Ledger Network (Blockchain).
- Used **Jenkins** to verify that the test scripts work and **Docker** to run scripts.

## EXTRACURRICULARS/PROJECTS

## HackIllinois 2023 1st Place Winner, John Deere Track

Feburary 2023

- HackIllinois is UIUC's premiere collegiate hackathon, with **750 participants** competing from Midwest universities.
- In a team of four, we created a full stack web-app that can categorize images and descriptions of trash into separate categories: glass, compost, recyclables, hazardous waste, metals, and residual waste.
- I utilized **AWS S3** to store and access large datasets/models, and **yolov8/neural networks** to train our image classifier to detect general objects. Also used **AWS EC2** to minimize overload on personal laptop.

# Illini Blockchain, Smart Contract Developer, Incoming Developer Lead

January 2023 – (Present)

- Utilized **Solidity** and **Typescript** to create a decentralized application that crowdsources donations of Ethereum to charities.
- Published an article about Crypto Academy Blockchain Class on Illini Blockchain's Medium.

### **Automated Video Assistant Referee for Soccer**

August 2021 – May 2022

- Automated the process of determining whether a soccer player is offsides. Presented at tjSTAR to 1000+ students.
- Used **PyTorch** to train my own custom ball detection model, **OpenCV** to identify players, **k-means** to sort players by team, and **matplotlib** for goal-line detection.

## HONORS/SKILLS

- Languages: Java, Python, C++, Typescript (Proficient), Bash, Node.js, R, Solidity (Comfortable), Swift (Familiar).
- Tools: PyTorch, Natural Language Toolkit, Selenium, Github, Amazon Web Services (Proficient), XGBoost (Comfortable)
- Other Honors: James Scholar (Top 12% of UIUC students), Eagle Scout (Patrol Leader for 5 years), TEDxTJHSST talk (to be uploaded in summer 2023), Illinois Consulting Group Consultant, Incoming Data Science Intern at John Deere (Summer 2023)