

## EDUCATION

### Purdue University

Aug 2020 - May 2024

- **Major:** B.S. in Computer Science, *focus on ML, AI, and SWE*
- **Minor:** Management
- **Coursework:** Data Mining & Machine Learning, Intro to Analysis of Algorithms, Software Testing, Web Info Search & Management, Programming Languages, Systems Programming, Operating Systems, Data Structures & Algorithms
- **Skills:** Python, R, C, Java, HTML/CSS/Javascript, SQL, ARM Assembly, Scala, Haskell, Rust, Azure, AWS, Git, Github, Figma

GPA: 3.4

## WORK EXPERIENCE

### LEIDOS - *Software Engineering Intern (Vulnerability Management)*

May 2023 - Jul 2023

- Enhanced security infrastructure by cross-referencing **1000+** IP addresses between **Tenable Security Center & Splunk**, resulting in a comprehensive list of missing IPs and repositories for **over 100 environments**.
- Developed Python **scripts** to simplify IP list comparisons and application usage, increasing workflow efficiency.
- Monitored various sites for new major vulnerabilities daily to report findings to my team and created a **Quick Reference Card (QRC)** on how to make morning reports for future use by the team.

### ALIGN TECHNOLOGY - *Data and Analytics Intern*

May 2022 - Aug 2022

- Increased accuracy of data analysis performed on the European dataset by designing an autonomous solution to provide default values for empty data fields while streaming from **EventHub** to **Data Lakes**.
- Applied security policies utilizing **Azure Keyvault** for credential confidentiality across multiple projects.
- Consolidated multiple **Databricks** notebooks to process **Avro & JSON**-based topics from **Kafka**, allowing multiple teams to work on either platform, increasing workflow efficiency.
- Validated tested proof of concept in the development and **QAS** environment with over **20+ dynamic test users**.

## PROJECTS

### Freelance Work | *Cryptocurrency, OpenAI API, Web Speech API, Discord API*

May 2021 - Present

- Developing an AI chatbot utilizing the **OpenAI API & Web Speech API** and integrating it into a Discord bot.
- Building PCs & **crypto mining** rigs from Intel, Nvidia, and AMD chips to suit client needs & providing customer support.

### DripDrop | *React, Figma, GraphQL, AWS Amplify, Agile*

Jan 2024 - May 2024

- Created a full-stack social media fashion platform allowing users to friend, battle, vote, comment, and rank posted outfits
- Involved in developing core functionality & dev tools, and worked with designers to iterate on interactions & UI/UX.

### Entity-Relationship Diagram (ERD) Classification | *sklearn API, nltk API, PyTorch*

Nov 2023

- Classified images of ERD diagrams into groups based on content employing **sklearn & nltk** Python libraries.
- Used **Object Detection (OD) & Object Character Recognition (OCR)** to interpret text from diagram images, then applied a **K-Means** clustering algorithm to group them.

### StemSpace | *React, Node.js, MongoDB, Spring Boot, Agile*

Jan 2022 - May 2022

- Delivered a simple social media platform allowing users to post, comment, follow topics, & directly message other users.
- Tasked with user interface functionality across the website along with user authentication.

### Microsoft | *Databricks, Reddit API, Instagram API, Agile*

Aug 2021 - May 2022

- Partnered with Microsoft to build social listening tools to analyze influencer activity in the Minecraft community.
- Analyzed **Reddit** data & devised a script to download **13,000+ Instagram posts** and post data to categorize art styles.
- Gauged community sentiment's impact on player engagement; presented influencer marketing & findings to stakeholders

### John Deere | *OpenCV, Google Earth Engine API, Neural Networks, Agile*

Aug 2020 - May 2021

- Partnered with John Deere to build a boundary detection algorithm on golf courses through **image processing**.
- Applied edge detection filter methods & HSV masks to satellite images to better capture golf course boundaries.
- Achieved an **increased accuracy of 100%** over the average of **700 images** when tuned for a specific golf course image.

## EXTRACURRICULARS

### ADVNT - *Performance Team Member*

Jan 2023 - May 2024

- Pre-professional dance organization that performed throughout the Midwest; Achieved 2nd place at Indy Open'24

### ASSOCIATION of SOUTH ASIANS at PURDUE (ASAP) - *Co-founder & Vice President Internal*

Aug 2022 - May 2023

- Provided a community for South Asians to share their culture with other Asian organizations and students
- Guided other members of the board on how to best utilize the organization's resources for events & mitigating conflicts.