

Sebastian Ashkar

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EDUCATION

Arizona State University

Tempe, AZ

Bachelor of Science in Computer Science (Cyber Security), Minor in Political Science

Aug. 2023 – Dec 2026

- Coursework: Computer Organization, Data Analysis, Advanced Algorithms, Systems Security, Network Security.
- pwn.college Yellow Belt, New American University - Provost Award Scholar, 5x Dean's List, 4.0 GPA.

EXPERIENCE

Software Engineering Intern

June 2025 – August 2025

Cisco

San Jose, CA

- Successfully drove the implementation of a data visualization web dashboard utilizing Plotly Dash.
- Leveraged GitHub Copilot to accelerate development, contributing 20+ unique features and 30k+ lines of production code.
- Implemented and optimized data gathering and ETL workflows to and from various MongoDB and SQL-based databases.
- Achieved sub-second data fetch time. Reduced page load time by 10x.
- Mitigated SQL injection and XSS vulnerabilities through input filtering.
- Collaborated with a talented team of back-end and front-end developers to ensure optimal performance and delivery time.
- Successfully presented product and contributions to panel of senior directors.

Intern

June 2023 – August 2023

GoCharlie.ai

Remote

- Expanded company's reach and visibility by securing a feature on a podcast through meticulously engineered email efforts.
- Implemented an automated email distribution system, resulting in a time-saving of 2 hours per week.
- Coordinated week-long Twitter campaign to expand reach and build hype for AI Party and product launch.

Crew Member

Feb. 2021 – July 2022; Feb. 2024 – May 2024

McDonald's

San Jose, CA; Tempe, AZ

- Cut customer wait times by efficiently multitasking order and payment taking simultaneously in a high stress environment.
- Coached new coworkers to swiftly process orders, utilizing personal and prior experiences for guidance.
- Amplified revenue by proactively up-selling and ensuring customer satisfaction, resulting in increased repeat business.

PROJECTS

Loncapa Solver | *Python, Parser, Discord API, Git*

- Collaborated on an extensive multiyear mathematical problem-solving AI Discord bot to aid students in mastering physics.
- Leveraged Discord.py library to streamline user interactions and Stripe API to implement secure payment processing.
- Efficiently parses user input and isolates key values by calculating the Levenshtein distance between strings.
- 4k+ lines of code contributed, over 500 physicists aided, 23k+ bot requests.

Sarcasm Detector | *TensorFlow, Neural Networks* | [GitHub](#)

- Constructed and trained a custom neural network model that identifies sarcasm in newspaper headlines.
- Optimized the node structure to achieve an 75.00% accuracy in headline identification.

File Compressor-Decompressor | *Java, Git, BST, OOP, Huffman Coding* | [GitHub](#)

- Lead a team of four junior develops in developing a file compression and decompression program.
- Utilized the Huffman coding algorithm to reduce the bit size of each character in a text file by an upwards of 30%.
- Supported teammates in attaining a deep comprehension of the collaborative coding environment through git.

Twitter Eliminator | *Asyncio, Git, Hikari, Torch, Transformers* | [GitHub](#) | [Top.gg](#)

- Deletes Twitter links, links to Twitter embedding sites, and screenshots of Twitter sent in Discord channels.
- Scans all image media using a custom ML model to identify and delete screenshots of Twitter.

TECHNICAL SKILLS

Languages: C/C++, Java, MongoDB Script, Python, SQL, JavaScript, HTML/CSS, R, Bash Script, X86 Assembly

Technologies: Apache Airflow, Binary Exploitation, Copilot, Cryptography, GDB, Git, Linux, IDA Decompiler, ROP

Libraries: Discord.py, Flask, NumPy, Pandas, Plotly, PyCrypto Dash, Pwntools, Scapy, Stripe