Abhinav Ranish

623.281.7065 • aranish@asu.edu• linkedin.com/in/abhinavranish/• aranish.codes

Professional Summary - Computer Science student with experience in Python, JavaScript, and backend development. Built automation tools and web applications with a focus on security best practices.

PROFESSIONAL EXPERIENCE

Technology Consultant – Enterprise Technology Arizona State University, Tempe, AZ: November 2024 - Present
- Provided real-time support for projectors, cameras, microphones, and other technology to minimize disruptions.
- Managed the front desk, assisting faculty and staff with inquiries via phone, Slack, and in-person interactions.
- Conducted **nightly system checks across 60+ classrooms daily**, proactively identifying and resolving issues.
- Enabled uninterrupted lectures and improved response times, ensuring a seamless learning environment for students

Information Technology Intern - Qatar Financial Center Regulatory Authority, Doha, Qatar: May 2024 - July 2024
- Contributed to a **major three-year fleet upgrade**, replacing outdated employee laptops with new systems.
- Ensured compliance with company security policies managing sensitive client data and configuring environments.
- Deployed **150+ laptops with Standard Operating Environments within a week**, setting records for deployment speed.
- Created technical presentations on IT infrastructure, gaining hands-on experience with Trellix, Azure, and FortiClient.
- Improved employee efficiency and system performance by ensuring a smooth transition to upgraded workstations.

Summer Intern - Mannai Corporation, Doha, Qatar: July 2023 - August 2023
- Shadowed IT professionals in a **high-paced IT support center**, assisting in tickets for external clients.
- Contributed to the development of an **ASP.NET website**, working within a team to implement new features.
- Gained hands-on experience in **switch configuration, IP addressing, subnetting, and VLAN management**.
- Developed a foundational understanding of networking and IT support, learning from experienced professionals.

ACADEMIC PROJECTS

Secure Team Password Manager   Spring 2025
Deployed Passbolt Community Edition on **AWS EC2** to streamline password management for ACM ASU.
Configured NGINX as a reverse proxy and secured the platform with **OpenSSL (SSL/TLS) encryption**.
Delivered a scalable, secure, and user-friendly solution that enforced password hygiene for the organization.

AI Stock Analyzer   Spring 2025
Developed an AI stock tool leveraging **Retrieval-Augmented Generation (RAG)** to provide investment insights.
Integrated **Yahoo Finance** for stock data, **OpenInsider** for insider trading activity, and **NewsAPI** for sentiment analysis.
Implemented **FAISS vector search** to retrieve similar stocks and **Ollama LLM** for AI-driven predictions (Buy/Sell/Hold).
Built a **React-based web interface** for real-time stock analysis, displaying trends, confidence scores, and key insights.
Enhanced decision-making by incorporating **technical indicators (RSI, MACD, SMA)** and news sentiment analysis.

Spotify Visualizer   Spring 2024
Personal project leveraging the **Spotify API** to create a dynamic music visualizer.
Built using **Express.js and MongoDB**, allowing users to authenticate and fetch real-time track data.
Designed an interactive web interface to display song visuals based on audio features.
Integrated **MongoDB** to store user preferences and enhance customization options.

Auto Class Enroller   Fall 2023
Developed a **Python-based automation tool** to streamline student class enrollment at ASU.
Built a **web scraper using Selenium** to monitor real-time class availability.
Implemented an **Auto Login system** with a workaround for **2FA authentication** to enhance efficiency.
Optimized the script to reduce manual intervention, improving the chances of securing desired classes.

VOLUNTEER / HACKATHONS

Zenith Gavels - Toastmasters Intl, Qatar: President   Jun 2020 – May 2021
Accumulated 5+ years of experience in public speaking, including leading impromptu speaking sessions.
Effectively communicated with colleagues, managed sensitive data, and reviewed/approved member awards.
Evaluated member performances, provided constructive feedback, and ensured responsibilities while expanding membership.

Devils Invent – Honeywell Hackathon (Most Innovative)   Spring 2024
Developed a Flight Path Algorithm for eVTOLs for a Hackathon at Arizona State University
Used **Dijkstra's Algorithm** to calculate the best path in between landing zones, used fuel index vs speed index for queueing
Developed a crash detection system based on priority and speed index of the eVTOLs.

TECHNICAL SKILLS

Programming: Python, C/C++, Java, HTML, JavaScript, CSS, Express.js, React.js, P5js, Bash, Git, SQL
Cyber Security: NIST, GRC, Nmap, Wireshark, Burp Suite, OSINT, Metasploit, Virtual Machines, Wireless Security, VAPT
Other Tools: Excel, Microsoft Office, G Suites, GitHub, AWS hosting, Teams, Cloudflare Pages
Certifications: Certified Penetration Tester, Career Essentials Cyber-security, CIP, File Security Associate, Prompting Essentials,

EDUCATION

B.S, Computer Science (Cyber); Minor in Justice Studies   Arizona State University, Tempe, AZ
Administration Chair @ ACM ASU
AZNext - Cybersecurity Hands on Problem Solving (GRC, Threat Modeling, SecOps)
Member Software Developers Club & Hacker Devils