

## OM KASHYAP AVASHIA

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### EDUCATION

#### **Barrett, The Honors College, Arizona State University (Class of 2027), Tempe, AZ**

Bachelor of Science (Honors) in Computer Science

#### **Ira A. Fulton Schools of Engineering, Arizona State University (Class of 2027), Tempe, AZ**

Bachelor of Science in Computer Science; GPA: 4.0; 100%+ in Calculus I and II; Freshman Year Dean's List; New American University Scholar

### TECHNICAL SKILLS

- **Languages:** Python (Pandas, NumPy, Matplotlib, PyTorch, Streamlit), Java, C / C++, MySQL, Bash, Prolog
- **Operating Systems:** Linux, macOS, iOS, Windows
- **IDEs:** PyCharm, IntelliJ, CLion, VSCode
- **Security Toolkit:** NIST RMF & CSF, OAWSP, TCP/IP Networking, IP Protocols, Vulnerability Analysis

### PROJECTS

#### **Weather Insights App** (<https://github.com/omavashia2005/weather-insights-app>) | Personal Project Sept 2024

- A basic Weather Insights App that fetches the OpenWeatherMap API and Streamlit for the frontend.
- Currently adding more functionality and improving UI.

#### **Network Traffic Analysis** | Google Cybersecurity Professional Certificate

Sept 2024

- Used tcpdump and Wireshark to capture and analyze network traffic packets

#### **File Permissions in Linux** (<https://github.com/omavashia2005/GoogleCybersecurityCertificate>) | Google Cybersecurity Professional Certificate

June 2024

- Demonstrated a basic understanding of the Linux kernel and Bash
- Used Bash to navigate and change permissions on directories and files within a Linux shell using basic Bash commands.

#### **Apply Filters to SQL Queries** (<https://github.com/omavashia2005/GoogleCybersecurityCertificate>) | Google Cybersecurity Professional Certificate

June 2024

- Demonstrated a basic understanding of databases
- Used SQL with filters to perform security-related tasks by efficiently accessing databases

#### **Hill Encryption Project** (<https://github.com/omavashia2005/Hill-Encryption-Project>) | ASU.

Jan – Apr 2024

- Developed a Java project, under the guidance of a Calculus II professor, using linear algebra and modular arithmetic to encrypt messages with a variant of the Hill cipher.

### CERTIFICATIONS & PROGRAMS

- Google Cybersecurity Professional Certificate

May 2024 – Present

### EXPERIENCE

#### **Instructional Aide/Grader** | School of Mathematical and Statistical Sciences, ASU

Sept 2024 – Present

- Instructional Aide and Grader for MAT142 (College Mathematics) and MAT117 (College Algebra)

#### **Summer Intern (Remote)** | Snafu Records, Stockholm, Sweden

May 2022

- Applied data science concepts and tools (Matplotlib, Pandas, NumPy) to analyze trends in the Indian music market
- Conducted extensive research on the Indian music market and identified three up-and-coming artists from different genres who have the potential to go mainstream and [resented recommendations virtually to Snafu's executive leadership team in Stockholm and Los Angeles

### CLUBS & ORGANIZATIONS

#### **President** | STEMathematics, ASU

Oct 2023 – Present

- Helping form the club, chaired by faculty, that teaches higher-level math concepts to non-math STEM majors
- Grew the club from 0 to 40 members in one semester; handled all logistics for the club

#### **Member** | Software Developer's Association (SoDA), ASU

Mar 2024 – Present

- Placed 73rd out of 90 participants (ranging from freshmen to seniors) in *Coding Challenge X* after only one week of experience with Data Structures and Algorithms for competitive programming.