Owen Bress

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EDUCATION

Pennsylvania State University, University Park, PA   *Expected May 2028*
Candidate for Bachelor of Science in Computer Science (B.S.) with a Minor in Mathematics
Major: Computer Science | *Minor:* Mathematics

Lower Merion High School, Ardmore, PA   *June 2024*
GPA: 3.97/4.0 | *Sports/Clubs:* Varsity Soccer, Track, CS Club, Chess Club Officer
Honors & Awards: 6th Place TSA National Conference for Software Development, LM Best App 2023, AP Scholar with Distinction Award, National Honors Society, Silver Maxima Cum Laude (National Latin Exam)

PROJECTS

Event LM
- An iOS app that organizes sporting and club events for students, parents, and faculty. This app allows users to efficiently manage event details like time, location, records, schedules, updates, and more.
- Made with Swift/SwiftUI and used Firebase Realtime Database.
- Won 6th Place at TSA National Conference for Software Development and best app of 2023 for my high school.

Automated Video Generator
- Automatically creates videos for social media platforms like YouTube and TikTok using Python.
- Developed using Python with various APIs including YouTube Data, PRAW, GPT, and Amazon Polly. Used Montreal Forced Aligner for audio-transcript synchronization and video editing libraries like FFmpeg and MoviePy.

SKILLS

Programming Languages
- Strongly know: Python, Java, and Swift/SwiftUI.
- Studying: Rust and JavaScript.

Accessing and Managing Databases
- Experience in utilizing Firebase Realtime Database for managing, modifying, and retrieving large-scale datasets across a broad user base.

Efficient API Integration and Utilization
- Worked with many API's including but not limited to Amazon Polly, OpenWeather, Azure Web Search, and GPT.

LEADERSHIP

Lower Merion Computer Science Club | *Member*, Ardmore, PA   *September 2021 – June 2024*
- Planned, developed, and led an annual event to introduce STEM to students from underrepresented backgrounds.
- Traveled to teach middle & high school students Python and how to use it for flying drones, cars, and path finding.

Lower Merion Chess Club | *Officer*, Ardmore, PA   *September 2022 – June 2024*
- Taught weekly lessons for new members and promoted the club by announcing matches and meeting times.

Interests: chess, soccer, running, swimming, weight training, coding