

# Benjamin Stahl

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## EDUCATION

**Lehigh University**, Bethlehem, PA — *B.S. Computer Science & Business, Minor in Data Science*

GPA: 3.46 | Expected Dec 2026 | Study Abroad: Barcelona, Spain (Summer 2025)

Relevant Coursework: Machine Learning, Data Structures & Algorithms, Systems Software, Operating Systems, Database Systems, Computer Architecture

## TECHNICAL SKILLS

- **Languages:** C++, Python, Java, Go, JavaScript
- **Frameworks/Tools:** Flask, PyTorch, MongoDB, SQL, AWS (EC2, Lambda), WebSockets, REST APIs, Docker
- **Concepts:** Data Structures, Algorithms, Multithreading, CI/CD, Agile Development, SDLC
- **Other:** Git, Linux, Jira, Assembly, Heroku, HTML, CSS

## TECHNICAL EXPERIENCE

**EarthPulse AI**, Barcelona, Spain | Geospatial Data Science Intern

May 2025 – July 2025

- Built and deployed Python pipelines to process 1TB+ of satellite imagery for ML training
- Generated triplet and pair data for unsupervised super-resolution models
- Automated satellite data ingestion to the Earth Observation Training Lab, boosting throughput

## TECHNICAL PROJECTS

**Chrome Recaptcha Harvester (Open-Source) — Python, Flask, ChromeDriver, Multithreading**

- Maintained a popular open-source automation framework (90+ GitHub ★) for collecting and serving reCAPTCHA tokens, used by developers for scalable data-collection workflows
- Designed a multithreaded token-pipeline architecture with queuing, monitoring, rate limiting, and automated testing for long-term reliability

**Leet Arena — Real-Time Coding Competition Platform — Python, Flask, MongoDB, WebSockets**

- Built a multiplayer real-time platform where users race to solve coding problems; implemented WebSockets for live lobbies, secure auth (bcrypt), and automated problem fetching/submission via LeetCode GraphQL

**High-Concurrency Queue-IT Bot — Go, Goroutines, goquery, REST APIs**

- Developed a CLI tool to manage hundreds of concurrent sessions using goroutines, sophisticated proxy/session rotation, and session recovery; implemented challenge-handling modules for resilience

**Heardle Ultimate — Spotify Music Game — Python, Flask, Jinja2, Spotify Web API**

- Full-stack app with Spotify OAuth and API integration; dynamically fetches artist/track data to generate endless Heardle-style gameplay and personalized playlists

**Tclslang — Tcl Extension for Verilog Analysis — C/C++, Slang (SystemVerilog), Tcl**

- Integrated SystemVerilog parsing into Tcl via a custom C++ extension for analyzing hardware modules and signal drivers

## LEADERSHIP & INVOLVEMENT

**Computer Science & Business Association**, Vice President of Development

April 2025 – Present

- Lead all development-related initiatives and oversee project teams and research collaborations
- Coordinate student technical projects and maintain partnerships with Lehigh's College of Business and CSE Dept.

**Computer Science & Business Association**, Technical Development Chair

April 2024 – April 2025

- Directed the **Lehigh Valley Collegiate Hackathon**, hosting ~100 students from six universities
- Secured **\$10K in sponsorships** from companies and university departments
- Managed logistics, judging, and event technical infrastructure for a 24-hour coding competition

**Additional Roles:** CSB Connect Pre-Orientation Leader (2024–2025), Professional Chair — Sigma Phi Delta Engineering Fraternity, Member — Machine Learning & Climbing Clubs

**Personal Interests:** Reading, DJing, Volleyball, Basketball, Wrestling, Running, Lifting, Fashion