Trevor Pope

Phoenix, AZ — (602) 531-4505 — trevorpopeprogramming@gmail.com — github.com/TPteam7 — linkedin.com/in/trevor-pope

Education

Grand Canyon University (GCU), Phoenix, AZ   **Sep 2021 – April 2025**
Bachelor of Science in Computer Science – Big Data Analytics Emphasis, GPA: 3.94, Summa Cum Laude, Honors Program, Dean's List

Experience

Software Engineering Intern – USA Managed Care Organization   **April 2023 - Aug 2023**
- Led Java to Python migration of provider finder, enhancing performance by **15%** and improving maintainability.
- Executed data engineering and optimization, integrating **Elasticsearch** to elevate search relevance.
- Conceptualized a **neural-network** ranking model utilizing **text embeddings** to predict search result relevance.

Web Development Intern – Whitepoint Digital   **April 2022 - Sep 2022**
- Developed responsive websites (HTML, CSS, JavaScript), ensuring cross-browser compatibility across **95%+** browsers.
- Customized WordPress via theme/plugin development for **10+** client needs, enhancing website functionality.
- Contributed to **SEO** and performance tuning, achieving a **20%** improvement in loading speeds.

Projects

Zonaly – Geofenced Screen Time App   **Swift, CoreLocation, FamilyControls, ManagedSettings**
- Developed an iOS app using geofencing and **SwiftUI** to restrict app accessibility within defined boundaries.
- Implemented **FamilyControls**/**ManagedSettings** to enforce location-based screen time limits.
- Leveraged SwiftUI for a user-friendly interface to manage **geofences** and **app restrictions**.

C– Compiler   **C, Bison, MIPS assembly**
- Architected/implemented a new language, **C–** (based on C), compiling to optimized **MIPS assembly**.
- Utilized **Bison** for parsing, generated an **AST**, and performed **semantic analysis** (type checking, scoping).
- Optimized intermediate **Three-Address Code** using dead code elimination, constant folding, and propagation.

Generative Adversarial Network – Dogs   **Python, PyTorch**
- Implemented a **ProGAN** with **PyTorch** to generate high-resolution dog images from **5,000+** images.
- Applied **progressive growing**/**gradient penalty** for better generated image quality.
- Demonstrated generation of diverse, high-quality synthetic dog images using ProGAN.

Leadership & Recognition

Grand Canyon University

- **Community Events Coordinator** (2023 – Present): Led **200+** student community engagement events.
- **Life Leader** (2022 - 2025): Facilitated weekly Bible studies and community building for **30+** participants.
- **Student Leader of the Year Nominee** (2024-2025)

Skills

Languages: Python, Java, Swift, C, JavaScript, SQL
Frameworks/Tools: SwiftUI, PyTorch, Firebase, TensorFlow, React, Node.js, Git, Unity, Elasticsearch, MongoDB
Specialties: iOS App Development, Compiler Design, Machine Learning, Web Development, Data Engineering