Grace Bergquist

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Objective

Highly motivated senior Computer Science student-athlete with a background in UX design, concentrating in AI/ML. Interested in research on *human-machine teaming, mixed reality, and trustworthy intelligent systems.*

Education

B.S. in Computer Science
California Baptist University

- Concentration in AI/ML
- Expected graduation: April 2026
- **GPA: 3.97**
- Member of CBU AI/ML Lab High Performance Computing team, investigating 3D workflows in NVIDIA Omniverse

Leadership & Awards

- **Team Captain,** NCAA Division I Water Polo (2023, 2024, 2025 seasons)
- **SMART Scholarship** (Science, Mathematics, and Research for Transformation), Full tuition and funding through the U.S. Department of Defense

Skills

- **Languages:** C++, Python, Java
- **Machine Learning:** Experience with Scikit-learn, PyTorch, Hugging Face
- **Data Analysis:** Pandas, NumPy
- **Tools:** Git, Firebase, Figma

Relevant Experience

Naval Surface Warfare Center Dahlgren Division / Student Intern

June 2024 - PRESENT, Dahlgren, VA

- DoD SMART Intern, software development position at an RDT&E facility.
- Collaborated with a software development team to refactor a large-scale, legacy C++ codebase, add new features, and modernize system architecture.
- Utilized Git branching workflows, pull requests, and code reviews to ensure clean integration of features and updates.

Research Projects

Automatic MRI Tissue Identification and Inverse FEA Research / Undergraduate Researcher

Faculty Mentors: Dr. Sanders and Dr. Gordon, Fall 2025 - Present

- Contributing to an ongoing research effort exploring image classification for tissue health.
- Developing a ML pipeline to predict pelvic plate elasticities using PCA geometry features and chained regression models (RandomForest/ XGBoost)

Subliminal Learning in ML Models / Student Research

Student Researcher, Fall 2025 - Present

- Exploring the transmission of behavioral traits in LLMs via hidden signals in data, and attempting to transmit traits through LoRA fine-tuning.

Towards Sustainable Decision Making Over GIS: A Survey / Collaborative Research Paper

Co-Author, September 2025, Submitted to Western Decision Sciences Institute (WDSI)

- Survey of foundational topics and software that guide Geographic Information System solutions.

Survey of Radiology in Hospitals in CA for Decision Making and Effectiveness Analysis / Collaborative Research Paper

Co-Author, October 2025, Submitted to WDSI

- Study of radiology in CA hospitals to assess decision-making and effectiveness.

Technical Projects

Student Video Tutoring App / Full-Stack Development

January 2024 - April 2024

- Designed UI/UX in Figma and engineered a Firebase/Firestore backend to manage real-time user data and authentication.