Camila Grubb

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EDUCATION

University of Arizona, College of Science — **Tucson, Arizona**
Bachelor of Science — May 2025
- **Major:** Computer Science — **GPA:** 3.4
- **Minor:** Business Administration
- **Certifications**: Cybersecurity

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, HTML, CSS, C, SQL
Frameworks/Libraries: Numpy, Matplot, Pandas, Scipy, Pytorch, NLTK, Transformers
BI/Analytic Tools: Matplot, Jupyter, Excel
Software: Git, VSCode, Microsoft Office
Languages: English, Spanish

PROFESSIONAL EXPERIENCE

Sarver Heart Center — **Tucson, Arizona**
Research Lab Assistant — August 2022 – December 2024
- Designed and implemented code-based solutions for detecting movement abnormalities in CKD patients ensuring validity and clear visualization of motion data.
- Optimized Python scripts for statistical analysis eliminating need for manual validation and reducing data processing time by several hours.
- Verified the efficacy and usability of 3 large language models for their use in clinical record keeping.
- Prepared papers and presentations for 4 professional medical conferences to connect the Arizona Center for Accelerated Biomedical Innovation research center with other laboratories.

Banner Medical Center — **Tucson, Arizona**
Lead Researcher — May 2024 – August 2024
- Directed a research team of 6 undergraduate students to design experiments for successfully evaluating the efficiency of 4 Texas Instruments millimeter-wave radar sensors.
- Facilitated collaboration across engineering and medical teams, fostering clear communication and on-time project delivery.
- Configured sensors for real-time data acquisition of 6 subjects over 36 trials using TI hardware and custom Python scripts allowing for analysis of biological markers.

University of Arizona Design Labs — **Tucson, Arizona**
Design Lab Intern — February 2023 – May 2024
- Developed and prototyped software solutions for APEX Applied Technologies, addressing outreach needs for new clients needing to apprehend financial terminology.
- Researched and identified funding opportunities and cost-effective website resources, reducing financial burdens by over $20,000.

PROJECTS/RESEARCH

On-Body and Around-Body Motion Sensing Comparative Analysis — **Tucson, Arizona**
Co-Author/Researcher — November 2024
- Conducted motion fluctuation analysis between mobility sensors achieving 73% agreement efficiency.
- Cleaned and organized data from medical devices and reported patterns through visualization to researchers across departments in biomedical research.
- Co-wrote and consulted with colleagues to develop a published MDPI research paper.

Sherlock3 Project — **Tucson, Arizona**
Student Developer — December 2024
- Created a question-answering system inspired by IBM's Watson achieving precisional accuracy of 47%.
- Coded individual parts of a classifier, including querying, parsing, and tokenizing components within a team to integrate together into one large repository.
- Performed error and biases analysis on small scale systems.