Camila Diana Grubb

Education

Bachelor of Science Degree in Computer Science 2021 - 2025
USA - University of Arizona - Tucson, AZ
Minor in Business Administration 2021 - 2025
USA - University of Arizona Tucson, AZ

Certifications

Certificate in Cybersecurity 2022 - 2025
USA - University of Arizona South - Tucson, AZ
Full-Stack Software Engineering Certification October 2024 - February2025
Amazon Junior Developer's Certificate

Contact

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Experience

Research Lab Assistant (Arizona Center for Accelerated Biomedical Innovation)
University of Arizona Sarver Heart Center, Tucson, AZ– (August 2022 - Present)

- Designs and implements code-based solutions for complex research projects, managing a multidisciplinary team to ensure timely execution of experiment plans.
- Optimizes Python scripts for data parsing, transformation, and statistical analysis, reducing data processing time by several hours.
- Leverages machine learning models and bioinformatics libraries (SciPy, Pandas, NumPy) to identify biological markers from experimental data, enabling more targeted research.
- Prepares technical papers and presentations to attend and speak at professional medical conferences such as ASAIO and ASN.

ADVANCE Kidney Research Project (Lead Role)
University of Arizona Banner Medical Center, Tucson, AZ -(May 2024 - August 2024)

- Directed a research team to develop experiment plans and Python scripts, successfully evaluating the efficiency of medical sensors.
- Facilitated collaboration across engineering and medical teams, fostering clear communication and on-time project delivery.
- Configured and calibrated sensors for real-time data acquisition using TI hardware and custom Python scripts, achieving precise control over experiments.
- Utilized version control systems (Git, GitHub) for maintaining code repositories.

Design Lab Intern
University of Arizona Design Labs, Tucson, AZ -(February 2023 - May 2024)

- Developed and prototyped software solutions for client companies, including APEX Applied Technologies, addressing complex technical challenges.
- Employed discipline specific skills to the project for product completion (design steps, communication setup, frontend development).

- Conducted requirements gathering, developed technical specifications, and collaborated with cross-functional teams to deliver product designs on time.
- Researched and identified funding opportunities and cost-effective website resources, reducing financial burdens for the company.

Languages

English - Native speaker *Spanish* - Proficient speaker

Skills

- **Programming Languages:** Python, JAVA, HTML, CSS, JavaScript, C
- **Libraries:** Pandas, Numpy, Scipy, Matplotlib, ReactJS, NLTK
- **Tools:** Visual Studio Code, GitHub, Capacitor, PowerPoint
- **Soft Skills:** Communication, Project Management, Research/Publication

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Projects

Portfolio Website - https://camilagrubb.wixsite.com/home

Shortlist:

- **ReactJS Netlify Site -** Original website developed in ReactJS from scratch for frontend development practice featuring personal projects and bio. (HTML, CSS, JS)
- **MMWave Radar -** Repository for managing pipelining and processing raw vital signs data capture from the 6843ISKAOPEVM Texas Instruments millimeter radar device. (Python)
- **Sherlock3 -** Developed a neural network-based question-answering system inspired by Jeopardy Watson AI, using Python and NLTK to achieve [X% accuracy or another metric]. Processed Wikipedia data to train the model on semantic similarity.
- **GreenBums -** Built a cross-platform app using Capacitor to manage plant care schedules with real-time weather alerts, integrating AWS APIs for scalable data management. (HTML, CSS, JS, AWS, APIs) *in progress*
- **EDU_Searcher -S**ite connecting to free education source APIs to make a search tool targeting trusted educational classes/tutorials/sources free of charge. *in progress*

Publications

(Published - November 19th 2024)

Title: Around-Body versus On-Body Motion Sensing: A comparison of Efficacy Across a Range of Body Movements and Scales

Publication Link

Volunteering

Angel Heart Pajama Project

University of Arizona, Tucson, AZ – (August 2022 - present)