# Reuben Beeler

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Aspiring ML engineer with 1+ years of experience in software development, eager to contribute to global solutions.

## WORK EXPERIENCE

### Scientific Developer Intern
*Cadence Molecular Sciences* | *Santa Fe, NM*                                          **Jul 2024 – Sep 2024**
- Accelerated a crucial BFGS optimization algorithm by 20%, streamlining drug discovery for customers.
- Engineered efficient processing and visualization workflows for 100GB+ datasets in Python (Scikit-learn, Matplotlib).
- Presented a final project to 50+ scientists via Powerpoint.

### Research Intern
*Computer Security Group at UCSB* | *Santa Barbara, CA*                             **Jun 2023 – Sep 2023**
- Contributed to a research paper accepted to USENIX 2024 about keylogging vulnerabilities in VR.
- Performed remote keylogging attacks in VR, achieving the project's key milestone within 6 weeks.
- Automated data collection, processing, and visualization with OpenVR, Wireshark Lua plugins, and Matplotlib

### Mobile Application Developer Intern (Backend)
*Telaeris, Inc.* | *San Diego, CA*                                                   **Jun 2022 – Sep 2022**
- Deployed fingerprint biometrics into the next major release of the flagship Android app using Java multithreading.
- Resolved a critical compatibility issue with third-party ISO fingerprint software, improving end-user experience.

### Mobile Application Developer Intern (Full-Stack)
*Telaeris, Inc.* | *San Diego, CA*                                                   **Jun 2021 – Dec 2021**
- Built Flutter frontend and SQLite & Rust FFI backend, enabling cross-platform experience of the flagship application.
- Rapidly learned Dart, Flutter, SQLite, and FFI, fueling key contributions as early as the first week.

## EDUCATION

### Bachelor of Science in Physics and Computer Science
*University of California, Santa Barbara* | *Santa Barbara, CA*                      **Sep 2021 – Mar 2025**
- University Honors | **GPA**: 3.97 (Computer Science), 3.82 (Physics), 3.88 (overall)

## PUBLICATIONS

- Remote Keylogging Attacks in Multi-user VR Applications. Zihao Su, Kunlin Cai, Reuben Beeler, et al. In 33rd Usenix Security Symposium, USA, August 2024.

## CERTIFICATIONS

- Java SE 11 Developer | Oracle                                                       November 29, 2021

## SKILLS

Machine Learning, Artificial Intelligence, Neural Networks, Deep Learning, Computer Vision, Scientific Computing, Parallel Computing, Quantum Computing, Software Security, Python, PyTorch, NumPy, SciPy, Matplotlib (Pyplot), Java, Android, x86_64, Objective-C, C++, Bash, Linux, CUDA, Dart, Flutter, FFI, SQLite, gRPC, Protobuf, JSON, Git workflow, FPGA, CAD (Fusion 360)

**Hobbies**: IRONMAN & Marathons, black belt in MMA, college rock band (sing, guitar, drums), backpacked John Muir Trail