Kyle Miller

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Education

University of Florida	CS GPA: 3.60	Dec 2025

BS in Computer Science

- **Coursework:** Intro to Data Science, Operating Systems, Algorithm Design, Networking Fundamentals

University of Florida		Dec 2021

BA in Biology

- **Coursework:** Critical Analysis of Biological Research, Robot Geometry 1, SolidWorks, MATLAB

Skills

Languages: C++, Python, Java, C, SQL, MATLAB, R, HTML5/CSS, LaTeX, ASM

Tools & Frameworks: Qt, SFML, OpenGL, CMake, Pandas, Git, Jupyter, Linux, Docker, GDB

Experience

Regional Director - Corporate Partnerships — *Florida, United States*
Crunch Fitness — *Dec 2019 - Jan 2025*

- Refactored corporate partnership program resulting in >10x ARR growth. Implemented CRM, created payment plans, participated in stakeholder meetings. Over 2,000 SMB partnerships established.
- Utilized google apps scripts and club management software to create tools and automate workflows.

Code Coach — *Sarasota, FL*
The Coder School — *Sep 2022 – Jun 2023*

- Instructed PLUS program focused on conveying technical concepts to a broad audience.
- Oversaw student collaboration and preparation for Quarterly Coder fair culminating in a Demo Day.

Undergraduate Software Developer — *Gainesville, FL*
UF Biomechanics Lab — *May 2017 – Aug 2018*

- Developed MATLAB tools for kinematic analysis in post-op patients, enabling automated failure mode detection in hip surgeries utilizing a nearest neighbors approach.

Validation Engineer - Internship — *Troy, MI*
Continental — *May 2015 – Aug 2015*

- Led experiment design and validation efforts in conjunction with consulting engineering team to analyze WIN recall issue. Performed multi-axis impulse testing. Filed 3 provisional patents.

Projects

- **Drone GL/ML** - Real-time drone landing simulation with OpenGL + ML-based safe-zone detection (C++/Python) *In Development*
- **BreadBasket** - Client-Server Web App to source low price groceries for families (Python/Flask/REACT)
- **WAD FS** - Userspace filesystem daemon with library to read and write WAD files (C++/C/FUSE)
- **PLC Language** - Lexer, Parser, Interpreter, Analyzer, Generator toolchain for typed language (Java/JUnit)
- **KyleKalendar** - Weekly planner with persistent memory and custom GUI (C++/Qt)
- **Minesweeper Clone** - Remake of the popular PC game with developer options (C++/SFML)

Publications

Clinical Biomechanics Volume 82 - *Transtrochanteric Osteotomy Article*	*Feb 2021*
US Patent 8,678,659 B2 - *Guitar Stabilization*	*Mar 2014*