Kyle Miller

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Experience

Regional Director - Corporate Partnerships *Florida, United States*
Crunch Fitness *Dec 2019 - Jan 2025*
- Refactored corporate partnership program resulting in >10x ARR growth. Configured CRM, designed 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. See *Publications* below.

Education

University of Florida *Jan 2024 - Dec 2025*
BS in Computer Science - 3.63/4.00
- **Coursework:** Data Science, Operating Systems, Algorithms, Networking Fundamentals, AI

University of Florida *Dec 2021*
BA in Biology
- **Coursework:** Critical Analysis of Biological Research, Robot Geometry 1, SolidWorks, MATLAB

Skills

Languages: C/C++, Python, Java, SQL, MATLAB, R
Tools & Frameworks: CMake, Qt, OpenGL, Pandas, Git, Jupyter, Docker, AWS, Hadoop, WSL

Projects

Machine Learning Driven Drone Guidance System Simulation
Cmake, GLFW, GLEW, ImGui, GLM, PointNet / PointNet++, PyTorch
- Senior design project comprised of OpenGL environment with autonomous drone guidance system consisting of POI selection, routing algorithm, and emergency landing protocol to simulate last-mile delivery.

Predicting Restaurant Health Inspection Scores Using Yelp Reviews
Jupyter, Docker, JSON, MatPlotLib, RE, TheFuzz, NLTK, Scikit-learn
- Jupyter notebook designed to build out classification models that can accurately predict health inspection outcomes for restaurants in a given area prior to inspections. Utilizes NLP for review sentiment analysis..

BreadBasket
React.js, Flask, Playwright, Node.js, SQLite, OpenAI
- Client-server web application to help users find the lowest priced groceries near them. Scrum master.

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*