

MATTHEW DELTANO

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SOFTWARE ENGINEER — ENTRY LEVEL

Hands-on software engineer with a strong foundation in algorithms, data structures, and object-oriented programming. Experience designing, implementing, debugging, and maintaining production software systems across full-stack, server-side, and algorithmic environments. Comfortable working independently on technically complex tasks while collaborating within multi-disciplinary teams. Strong academic background with applied experience in Python, C/C++, Java, and systems-level reasoning.

EDUCATION

Bachelor of Science, Computer Science — *Summa Cum Laude*

Florida Polytechnic University, Lakeland, FL | May 2025

Concentration: Software Engineering | GPA: 3.9

Honors

- Fulbright Canada Killam Fellow

TECHNICAL EXPERIENCE

SOFTWARE ENGINEERING CONSULTANT / MOBILE APP PROJECT MANAGER

Visitry LLC — Tampa, FL | Aug 2024 – Present

- Selected as the sole capstone team member invited to continue post-graduation as a contract software engineering consultant, contributing to production software used by real users
- Design, develop, validate, and maintain application features spanning frontend, backend APIs, and database interactions, with end-to-end ownership of system behavior and data flow
- Implement application logic and algorithms supporting automated scheduling and conflict resolution for 700+ total users, including reliable handling of 100+ concurrent users
- Own feature delivery from requirements through release, typically executing one-week development cycles from request to deployed functionality
- Lead technical integration across a five-person development team, coordinating feature development, branch management, and release readiness
- Refactor and stabilize legacy components to improve maintainability and long-term reliability while supporting major framework upgrades
- Debug production issues using logs and runtime diagnostics, leveraging AWS CloudWatch to trace failures and implement targeted fixes
- Optimize data access patterns to reduce unnecessary network and database calls, improving system performance under load
- Manage source control workflows using Git-based version control, including branching, merges, and releases in a lightweight CI/CD environment
- Translate evolving, sometimes ambiguous business requirements into concrete technical solutions while maintaining production stability

RESEARCH ASSISTANT — COMPUTATIONAL MATHEMATICS & ALGORITHMS

Florida Polytechnic University — Lakeland, FL | Jul 2023 – Dec 2023

- Designed and implemented a custom computational algorithm from scratch to analyze zero-divisor graphs, replacing manual methods that were infeasible at scale
- Achieved ~100× performance improvement by applying pruning logic, early-exit checks, and algorithmic optimizations
- Engineered solutions to process graphs with 1,000+ nodes while optimizing memory usage by persisting only verified results
- Embedded correctness checks to handle mathematical edge cases and degenerate structures within algorithm flow
- Translated abstract mathematical theory into reliable, repeatable computational logic suitable for continued research use
- Contributed core algorithm implementation to a peer-reviewed publication (*Graphs and Combinatorics*)
- Presented technical methodology, performance tradeoffs, and results to a large external academic audience
- Gained experience evaluating tradeoffs between speed, memory, and generality—skills directly applicable to systems and embedded software design

SERVER ADMINISTRATOR / JAVA DEVELOPER

Elbowbump Kid (Nonprofit) — Remote | Sep 2020 – Feb 2022

- Configured and administered a live server environment supporting 20+ concurrent users in a remote, production setting
- Managed server setup, configuration, updates, and version compatibility to ensure availability and stability
- Implemented access control, permissions, and safety mechanisms aligned with organizational requirements
- Developed and maintained custom server plugins and configurations to extend core functionality
- Performed backups and recovery procedures to protect data integrity
- Diagnosed and resolved real-time system issues while balancing technical constraints and user needs
- Operated independently in a fully remote environment, coordinating with stakeholders to maintain uninterrupted service

PERSONAL & TECHNICAL PROJECTS

SOCCER PLAYER STATISTICS ML MODEL

Python, Jupyter Notebook, NumPy, Pandas, TensorFlow

- Built an end-to-end supervised learning pipeline to predict soccer player goal totals using regression techniques
- Processed and analyzed a dataset of 2,688 rows and 124 features, performing cleaning, normalization, and feature preparation
- Evaluated model performance using R^2 , achieving ~0.80 explanatory power on held-out data
- Compared baseline linear regression with Ridge and Lasso models to assess stability and regularization effects

- Structured code and analysis for clarity, reproducibility, and peer review

MINECRAFT SERVER PLUGIN DEVELOPER

Java, Paper (Spigot), GitHub

- Designed and developed custom Java plugins for a public server supporting 100+ active users
- Implemented event-driven architectures using API listeners, configuration files, and modular plugin design
- Built systems emphasizing data persistence, error handling, and performance under load
- Identified performance-sensitive code paths and optimized high-frequency event handling
- Maintained compatibility with evolving platform versions while managing source control and releases

TECHNICAL SKILLS

Programming Languages

C/C++, Python, Java, JavaScript (Node.js), Rust, C#, SQL, Mathematica

Software Engineering & Systems

- Object-oriented programming
- Data structures and algorithms
- Debugging and performance optimization
- Software requirements implementation
- Server-side and systems programming concepts

Development Tools & Environments

- Git / GitHub version control
- Unix/Linux environments and command-line tooling
- CI/CD fundamentals
- AWS (deployment, logging, monitoring)

Data & Analysis

- Statistical analysis and regression modeling
- Data preprocessing and visualization
- Algorithm design and evaluation

ADDITIONAL EXPERIENCE

SALES ASSOCIATE

Dollar General — Brandon, FL | Jun 2022 – Aug 2022

- Delivered reliable performance in a high-traffic environment requiring accuracy, adaptability, and accountability
- Balanced multiple responsibilities under time pressure while maintaining attention to detail
- Recognized by management for reliability and professionalism