

Michael James Depo

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EDUCATION

University of Maryland, College Park | Expected Graduation: May 2028

Bachelor of Science in Mathematics, Bachelor of Science in Finance

- **Philip Merrill Presidential Scholar** - Selective, university-wide honor recognizing undergraduates at UMD for outstanding academic achievement (2025)
- **Interdisciplinary Business Honors College** - Invitation only two-year living-learning honors program for top 10% of incoming undergraduates

EXPERIENCE

Clark Construction Group, Financial Consultant & Team Lead (Capstone)

Baltimore, MD

September 2025 - May 2026

- Led a team of 8 through 15+ stakeholder interviews with superintendents, foremen, and engineers to identify AI-driven efficiency opportunities
- Directed development of an AI implementation strategy leveraging Datagrid and Procore programs to automate workflows, optimize reporting, and enhance project coordination

SEDS, Satellite Component Fabrication Avionics Team Engineer

College Park, MD

September 2025 - April 2026

- Prototyped an FPGA-based FSM with SpinalHDL, establishing RTL verification frameworks using Cocotb and GTKWave
- Developed a GPS acquisition testbench, using NumPy to generate and quantize Doppler-shifted complex baseband signals
- Implemented real-time UDP streaming of bit-packed 16-bit I/Q samples to verify FPGA acquisition via AXI-Lite telemetry

PROJECTS

Custom Binary Data Tree

Java, Eclipse

- Implemented a binary search tree supporting insertion, deletion, and search operations
- Developed recursive and non-recursive in-order, pre-order, and post-order traversal algorithms utilizing stacks and queues
- Built methods to find maximum and minimum values, as well as structural checks for completion, fullness, and perfection validation

Infinite Runner 2D Program

Java, Eclipse

- Built an infinite runner game with simulated physics and hitbox collisions
- Developed procedural generation methods to create a map with randomly occurring obstacles
- Added user-activated player features and a garbage collection system for smoother gameplay and better data management

AI-Enabled Transcription Client

Python, PowerShell, VS Code, ChatGPT

- Utilized PowerShell commands to direct virtual cable audio into bot while streaming content
- Created evidence folders containing the context and audio samples of target phrases once detected
- Trained custom GPT to format target phrase lists and track matches

ADDITIONAL INFORMATION

Skills: Accounting, Java, C, R / RStudio, Excel, VBA, Power BI, Python, R, FactSet, GAAP, DCF Modeling, Linear Programming, Project Management, AI workflows, Data Structuring

Interests: Baltimore Ravens, Weightlifting, Catan, Golf, Card Games, Chess, Prediction Markets, Cooking