

Matthew Park

(904) 613-5605 | mjpark019@gmail.com | [linkedin.com/in/matthew-park](https://www.linkedin.com/in/matthew-park) | github.com/mpark019 | mjpark.dev

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript

Frameworks: Spring Boot, Node.js, Express.js, Angular, React, Next.js

Data: PostgreSQL, MySQL, MongoDB, Supabase

AI: LangGraph, Google ADK

Infrastructure: Git, Docker, Kafka, GitLab CI/CD, Prometheus, Grafana, Splunk

EXPERIENCE

BNY

June 2026 – August 2026

Software Engineering Intern

Lake Mary, FL

- Modernized a 25-year-old Asset-Backed Securities platform across 5+ services using Spring Boot and Angular, delivering production code across 3 releases alongside a 10-engineer team.
- Owned a full-stack feature-flag management interface using Angular and Spring Boot, reducing deployment steps across 3 environments and enabling 10 engineers to manage 7 application features in real time.
- Diagnosed and fixed a scheduler defect producing duplicate tasks every night, restoring accurate automated task generation and preventing downstream processing errors.
- Owned implementation, validation, and production readiness across 15 Jira tickets, using spec-driven workflows with Codex and Devin while validating changes through tests, code review, SonarQube, and GitLab CI/CD.

BNY

August 2025 – December 2025

Applied Technology Intern

Orlando, FL

- Engineered a financial application health analyzer spanning 5 microservices using Docker Swarm and Prometheus, configuring Alertmanager to detect service failures, high latency, and unresponsive containers in real time.
- Implemented automated remediation workflows using LangGraph and Gemini Flash to diagnose failures, restart containers, recover failed services, or escalate incidents for human intervention.

Mirai Arcade

June 2025 – May 2026

Software Developer

Orlando, FL

- Built and deployed a 3-service inventory management system using Java/Spring Boot, Python/FastAPI, and Apache Kafka, cutting deployment costs by 50% and supporting event-driven inventory updates and forecasting for 30+ concurrent staff.
- Engineered fault-tolerant Kafka consumers with dead-letter queue handling, preserving failed messages with error metadata for auditing and later replay.
- Developed a Python demand-forecasting and analytics pipeline tracking inventory across 8+ storage location types, eliminating 3+ hours of manual tracking per week and improving operational efficiency.
- Launched Mirai Arcade's eCommerce platform using Shopify Hydrogen/Oxygen, creating a custom storefront that enabled online ordering and expanded sales channels.

PROJECTS

Onyx - Agentic Financial Advising | *Python, Next.js, Supabase, React, TypeScript*

October 2025

- Architected a multi-agent financial advisor with Google ADK, running fraud detection, budget analysis, and cash-flow prediction as parallel agents against a shared transaction data layer.
- Integrated real-time transaction data through the Plaid API and modeled structured financial records in Supabase, providing each agent with a consistent data layer for reasoning and analysis.

EDUCATION

University of Central Florida

Expected December 2026

Bachelor of Science in Computer Science, 3.6 GPA

Orlando, FL

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Computer Logic and Organization, Systems Software, Database Systems