Hamza Darwish

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EDUCATION

CODECADEMY : Career Path: *Full Stack Engineer, Machine Learning/ AI Engineer, iOS Developer*
Skill Path:Create Video Games with Phaser.js Skill Path
Courses: Learn Python 3 Course, C++ for Programmers Course, Java for Programmers Course

CODESIGNAL: *General Programming and Algorithms*

EXPERIENCE

Software Engineer - The First Choice Investment Group | Newark | *May 2023 - Present*
- *Architected a deal and asset-management platform with Node.js/Express services on AWS (RDS, S3, Lambda), modeling deals, properties, leases, and capex with clean domain boundaries.*
- *Built an underwriting engine that computes NOI, cap rate, DSCR, and IRR with multi-scenario sensitivity runs and waterfall outputs; generated audit-ready Excel/PDF pro formas.*
- *Designed ELT pipelines to ingest Yardi/AppFolio, MLS/CoStar, and lender term sheets via API/SFTP; added schema mapping, incremental upserts, and data-quality checks using Pandas, cutting manual prep time.*
- *Launched an investor portal with role-based access, MFA, and KMS-encrypted S3 document vault; integrated KYC/AML checks and DocuSign webhooks with full audit trails.*
- *Implemented CI/CD with GitHub Actions and IaC (CloudFormation); containerized services, used blue/green releases, and instrumented OpenTelemetry logs/metrics to drop P95 latency and speed recovery.*
- *Delivered portfolio analytics (occupancy, lease-up velocity, delinquencies, capex burn) and cash-flow forecasts in QuickSight backed by an RDS read-replica, improving IC decision speed.*

Data Analyst - Door-to-Door Logistics | Jersey City | *Apr 2022- May 2023*
- *Utilized Python, Pandas, and ETL pipelines to clean and process delivery data, enabling deeper insights into operational KPIs.*
- *Built and deployed dashboards on AWS to monitor route efficiency, on-time delivery, and driver performance in real time.*
- *Leveraged Git for version control and collaborative development of analytics scripts and reporting tools.*
- *Optimized delivery routes, reducing average delivery times by 18% and fuel costs by 12%.*
- *Improved on-time delivery by 22% and fleet scheduling efficiency by 20%, directly supporting new contract wins.*
- *Partnered with operations team to implement data-driven changes, boosting customer satisfaction scores by 25% and reducing late deliveries by 30%*

PROJECTS

My Portfolio | *Html, CSS, Javascript*
- *Built a responsive portfolio with a clean contact form and polished styling.*
- *Central hub linking to selected projects and code, showcasing core front-end skills.*

RNG Pull Sim | *Html, CSS, Javascript*
- *Created a web gacha simulator with randomized pulls and clear, on-screen results.*
- *Added an interactive tracker to review outcomes across runs.*

SZ Space | *Html, CSS, Javascript*
- *Built a clean UI to browse a fighting game's character skills.*
- *Dynamically renders details from JSON when a user selects an option from a dropdown.*

Dokkan Summon Sim | *Python*
- *Wrote a Python program that simulates a mobile game summon system.*
- *Supports configurable runs (currency, rate tables, character pools, and iteration count).*

Honorable Mentions | *UE5, Unity, C++, C#*
- *Unreal Engine + C++: Crafted an original landscape with lighting, fog, third-person controls, starfield effects, physics, and an RPG stat system for player growth.*
- *Unity + C#: Built an RPG stat system and a Flappy Bird-style clone with spawn timing, frequency control, and collision handling.*

TECHNICAL SKILLS

Languages and Frameworks: *Javascript, Python, Node.js, Bootstrap, Java, C++, C#, Swift, SwiftUI*

Technologies: AWS, *Unreal Engine, Unity, Git*