

Noah Walker

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Education

Georgia State University – Atlanta, GA

Senior, Computer Science

GPA: 3.93 – President's List (2 semesters), Dean's List (all other semesters)

Experience

CTO, MICA Clean Air | Atlanta, GA (2022 – Present)

Oversaw deployment and management of Kaiterra indoor air quality sensors through our partnership with PlanetWatch.

Directed data aggregation efforts to establish baselines and provide actionable health metrics.

Delivered large-scale solutions for major clients such as Jackson Healthcare (60 indoor and 2 outdoor installations).

Director in Training, NEW Canvassing Experience | Atlanta, GA (Jan 2023 – Jan 2024)

Managed and coached a team of 5–10 fundraisers, achieving key performance targets for nonprofit clients.

Secured \$200K in average yearly recurring donations through innovative fundraising strategies and team leadership, consistently ranking as a top performer.

Projects & Technical Highlights

Multi Project Exploration

Developed multi-function Python scripts to handle tasks based on intent, capable of multiple functions.

One function (via text prompts) can write/request code, execute it, analyze outputs, and iterate for accuracy.

Explored scripting for Data scraping, API usage for structured data, Open-source models such as CNN's, LSTM's and TTS for different use cases, created pipelines for tasks such as Instagram Content creation, and more.

Ethereum Miner Build & Analysis

Designed and built a custom 6-GPU Ethereum mining rig, mastering computer assembly and BIOS interaction.

Explored the algorithms behind different projects and conducted cost-benefit analyses of mining operations, including algorithm mechanics, earnings potential, and energy efficiency.

CHIA Blockchain Proof-of-Space Project

Constructed a storage-optimized computer system using SSDs and HDDs to support CHIA's proof-of-space concept.

Analyzed interactions between hardware, networking, and blockchain infrastructure to maximize efficiency for plotting onto 90 TB.

Helium IoT Network Deployment

Deployed over 20 Helium IoT nodes for large-scale residential applications, focusing on improving connectivity and range for LoRaWAN frequencies.

Gained a comprehensive understanding of IoT infrastructure, from hardware setup to network integration.

Technical Skills

Programming Languages: Python, C

AI & Machine Learning Frameworks: PyTorch, Hugging Face Transformers, TensorFlow, OpenAI APIs

Tools & IDEs: VS Code, GitHub, Linux/Unix Command Line, Jupyter Labs

Web Development/Interaction: REST APIs, basic Java, CSS, and React

System-Level Programming: Process Pipelines, Open-Source Model Integration, Dependency Management