

Carther Theogene

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Education

B.S. in Computer Engineering (Class of 2025), Boston University, Department of Electrical & Computer Engineering

Focus: Full Stack React/Typescript, Smart & Connected Systems, AI/ML with Python, Computer Networking, Software Engineering, Verilog for FPGAs

Positions

Founder & CTO, Rideoke / Rideo (Feb 2024 – Present)

- Leading product vision, system architecture, and hardware optimizations for “karaoke-on-wheels” service.

- Building real-time user engagement analytics and AI-driven carpool matching with music/news personalization.

Clinical Engineering Intern, BU-KIDMEP, Boston Medical Center (Summer 2021)

- Shadowed nephrology rounds to identify high-impact automation opportunities in dialysis.

- Proposed and prototyped optical-spectroscopy device to quantify residual proteins.

Software Developer, QuotumTech, Johns Creek, GA (2020 – 2021)

- Rotated across Fortune 100 client engagements; adapted to varied tech stacks (Vue.js, AWS, Redis, Python, Jenkins).

- Developed full-stack modules, integrated real-time analytics, and established CI/CD pipelines.

Freelance Web Developer, Anu Sood (MIT Alumnus) – Remote (2018 – 2019)

- Delivered ~6 bespoke websites emphasizing mobile-first design and SEO optimization.

- Iterated wireframes, integrated lightweight CMS, and provided ongoing maintenance.

Awards

GrantEngine Design Excellence Award (May 2025)

- Led a 3-person team to build an AI-driven grant-matching tool (FAISS/HNSW + TF-IDF).

- Clinched BU's most competitive senior capstone award in 25 years; overcame a big challenge in our code and reindexed 25K grant vectors mid-demo.

Professional FIFA eSports Signing

- Selected by New England Revolution (only 2 finalists) and re-signed three times.

BU-KIDMEP Fellowship

- Sole Computer Engineering student in BU's R25 Kidney Disease program; prototyped laser-based dialysis monitor.

Chess State/Regional Ranking

- Earned provisional 2499 USCF rating—highest in Maine—within months.

Selected Projects (Jan – May 2025)

GrantEngine (BU Senior Capstone): Full-stack AI tool for sub-10ms researcher-to-funding matching using FAISS/HNSW and TF-IDF.

Smart Home API: Built hierarchical data model (User → House → Room → Device) with Flask REST endpoints on Firestore.

ICU Health Monitor: Prototyped vitals tracking system with alert triggers, data logging, and visualization reports.

Hospital Asset Management System: Developed SQL-based platform for device/inventory tracking with real-time location updates.

Document Analyzer for Teachers: Implemented LLM-driven text analytics pipeline for summarization and scoring.

P2P Python Socket Programming: Designed socket-level networking, concurrency models, NAT traversal, and custom protocols.

MicroMaster™ – AI Microwave Product & Market Launch Plan: Led end-to-end strategy and business planning; conducted 200-respondent survey; delivered financial projections and go-to-market strategy; pitched to VCs.

Victory Programs Data Efficiency & Reporting Initiative: Streamlined data workflows for nonprofit; created Data Efficiency Questionnaire and flow visualizations; initiated tablet-based intake pilot; reduced manual tasks by 20–30%.

Skills

Technical: Python, JavaScript (React/Node/React Native), Ruby on Rails, C#/.NET, Verilog, Assembly, Docker, AWS, Redis, Elasticsearch, PostgreSQL, CI/CD (Jenkins, GitHub Actions)

AI/ML: PyTorch, scikit-learn, NLP (LLMs, TF-IDF), hardware acceleration

Languages: English, French, Spanish, Creole, Portuguese

Interests and activities: FPGA hacking, gaming (FIFA), chess, end-to-end IoT projects, Ping Pong, Soccer, Dancing.