

Adeildo Vieira Silva Neto

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Education

Duke University

Durham, NC

B.S. in Computer Science

- **Relevant coursework:** Data Structures, Design of Algorithms, ML, AI, NLP, Full-Stack IoT Systems (Graduate level), Computer Architecture, Database Systems, Data Science, Product Management.
- **Honors:** Full Scholarship; Microsoft NYC SWE+AI Mentee; Computer Science Department Representative at SHPE; Brazilian Student Association Director of Marketing.

Skills

- **Technical:** C/C++, Python, TypeScript, Node.js, React.js, GraphQL, Git, SQL, Java, JavaScript, Rust, HTML/CSS.
- **Technologies:** Open AI API, OAuth 2, OIDC, HTTP, TCP/IP, CI/CD, Azure DevOps, REST, Postgres, VM, Redis.

Experience

Software Engineer Intern

Sao Paulo, Brazil

BTG Pactual Bank, ID Team

Jun–Aug 2025

- Improved login performance by 47% toward a 1s latency target by shipping a secure “Log in with BTG ID” flow using industry-standard auth (OIDC/OAuth2/PKCE) in Node.js + GraphQL API.
- Expedited end-to-end delivery and production readiness by defining auth latency target, authoring the RFC, feature-flagged rollout/rollback plan, and running UAT + production validation with 8 Business stakeholders.
- Optimized UAT incident triage time by 20 mins by automating the auth flow with structured logging/telemetry, documenting API failure modes, and Redis state/caching; acted as DRI to restore service within SLA.
- Delivered compliant rollout for 8,000+ merchants by integrating Microsoft Entra ID and documenting OAuth2 scopes, consent, and roles across UAT + production.

Software Engineer Intern

Durham, NC

Duke OIT Data and Analytics, Code+ Program

May–Jul 2024

- Reduced data request cycles by 2 hours/day by deploying a containerized REST service (Docker on Linux) backed by PostgreSQL to power self-serve occupancy visualizations.
- Built a data acquisition system using Raspberry Pi + NDIR CO₂ sensors, implementing Python-based firmware for sensor polling, calibration, and streaming telemetry into the PostgreSQL-backed analytics pipeline used for occupancy modeling.
- Predicted room occupancy with 95% precision (high/low/none) and cross-validated $R^2 = 0.72$ by training/validating models on 2M+ Wi-Fi anonymized connection logs + CO₂ datapoints (Python, Scikit-Learn, GeoPandas).
- Owned the stakeholder loop with Facilities by translating requirements into acceptance criteria + accessible UX (WCAG) and iterating in 4 Agile sprints to make outputs usable for HVAC planning.

Technical Assistant, Prototyping & Fabrication

Durham, NC

Duke OIT Innovation Co-Lab Professional Services

Jun 2023–Dec 2024

- Reorganized turnaround time from 3+ to 1-2 business days by owning an end-to-end 3D printing delivery pipeline (intake, specs, production, handoff) for 24 stakeholders; shipped 47 custom research models for Duke Health research.
- Sustained 95% client satisfaction by standardizing workflows and documentation (specs/handoffs), improving reliability and minimizing rework cycles.

Projects

- **RepSense AI (C/C++):** Integrated the Open AI API into an ESP32 IMU workout coach to stream bench-press sensor data in real time and return on-device feedback (rep count, imbalance, tempo, rest quality), emphasizing low-latency within CPU/GPU: UX, HTTPS reliability, and human-readable insights on display.
- **MealPilot (Microsoft AI for Good Hackathon) (Python):** Built a Copilot Studio extension that recommends geo-personalized healthy meal options across NYC using Azure Maps Search/Routing; pilot with 28 students achieved 80% task success in 45s vs 5 min baseline (85% faster), targeting neighborhoods with >30% food insecurity.