Adeildo Vieira Silva Neto

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Education

Duke University **Durham, NC**

B.Sc. in Computer Science

- **Relevant coursework:** Data Structures, Design of Algorithms, Machine Learning, Artificial Intelligence, Natural Language Processing, Product Management, Full-Stack IoT Systems, Computer Architecture, Database Systems, Data Science.
- **Honors:** Full Merit/Need Scholarship; Computer Science Department Representative at SHPE National Convention; Microsoft NYC SWE and AI Summer Mentee; Brazilian Student Association Marketing Director.

Skills

- **Technical:** Python, TypeScript, Node.js, React.js, GraphQL, SQL, Git, Rust, C, Java, JavaScript, R, HTML, CSS.
- **Technologies:** OAuth2, OIDC, OpenAI API, CI/CD, Azure DevOps, REST API, Telemetry, PostgreSQL, 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 target by shipping a secure "Log in with BTG ID" flow using industry-standard auth (OIDC/OAuth2/PKCE) in Node.js and GraphQL.
- Drove end-to-end feature development by aligning requirements with stakeholders, authoring a design RFC, and shipping unit and integration tests gated in CI/CD, with rollout behind feature flags.
- Cut UAT incident triage time by 20 minutes by instrumenting auth with logs/telemetry and documenting the GraphQL integration; acted as DRI to restore service within SLA.
- Enabled compliant rollout for 8,000+ merchants by integrating Microsoft Entra ID (Azure AD) and documenting OAuth2 scopes, consent, and roles across UAT and production.

Software Engineer Intern **Durham, NC**

Duke OIT Data and Analytics, Code+ Program *May–Jul 2024*

- Predicted room occupancy with cross-validated $R^2 = 0.72$ and 95% precision (high/low/no occupation) by training and validating regression models on 2M+ Wi-Fi connection logs and CO2 sensor readings (Python, scikit-learn, GeoPandas).
- Drove an Agile stakeholder loop with Campus Facilities Management to translate occupancy insights into HVAC scheduling decisions, integrating WCAG accessibility requirements into the product design.
- Optimized data request cycles by 2 hours/day by shipping a RESTful service with a PostgreSQL backend that powered a live occupancy dashboard.

3D Printing Operator **Durham, NC**

Duke OIT Innovation Co-Lab, Bluesmith Lab *Jun 2023–Dec 2024*

- Reduced turnaround time from 3+ to 1-2 business days by owning end-to-end 3D printing deliveries for 24 stakeholders, producing 47 custom models for Duke Health research.
- Sustained 95% client satisfaction by standardizing intake/delivery workflows and documenting specs/handoffs to improve reliability and reduce rework.

Projects

- **RepSense AI:** Built an ESP32 workout coach that calls the OpenAI API in real time, returning streams of bench press exercise sensor data for on-device feedback (rep count, imbalance, tempo, rest quality), emphasizing low-latency UX, reliability, and clear human-readable insights on the device display.
- **MealPilot (Microsoft AI for Good Hackathon):** Built a Copilot Studio extension using Azure Maps Search/Routing to return geo-personalized healthy-meal options across NYC; pilot with 28 students achieved 80% task success in 45s vs 5 min (85% faster), targeting areas with >30% food insecurity.

Leadership

Technical Assistant at Espaço 4.0 **Santana do Ipanema, Brazil**

Ministry of Human Rights, Federal Institute of Alagoas (IFAL) *Feb 2022–Current*

- Expand access to hands-on computing and robotics for 67 youth from low-income and indigenous backgrounds by facilitating the launch of the first maker space in a rural community.
- Mentor adolescents and young adults with limited digital literacy through 24 3D-printing and IoT workshops per year, supporting skill development and confidence with emerging technologies.
- Trained 200 youths per year by bridging the local digital divide through community-based technology education, supporting programming that serves 20+ low-income municipalities.