

David Ejindu

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EDUCATION

University of Pittsburgh

Pittsburgh, PA

B.S in Computer Science, Minor in Economics — GPA: 3.8/4.0

Expected Graduation: December 2027

Courses: Data Structures & Algorithms, Computer Organization & Assembly Language, Software Engineering

Certifications: Amazon Web Services Certified Developer – Associate

EXPERIENCE

Wabtec Corporation

Pittsburgh, PA

Software Engineer Intern

May 2026 - Present

- Built AWS cost anomaly routing system across 149 linked accounts and 762 technical owners, emailing the owner whose service overspends, via EventBridge, Lambda and SMTP, removing 4 hours/week of manual FinOps work
- Projected to save \$12k/month by building a tag-based Terraform framework automating shutdown of non-prod OCI compute instances and a Python OCI Function that dynamically scales Exadata VM clusters down to 0 OCPUs
- Queried Tanium GraphQL API in Python to extract and filter 33k+ Wabtec laptops and workstations by admin rights, then visualized the results in Power BI, surfacing least-privilege permission gaps for the security team

Stratus Materials

Pittsburgh, PA

Software Engineer Intern

Jan 2026 - May 2026

- Created PostgreSQL indexes, materialized views, and corrected Tableau data model relationships on a 600M+ row table, reducing initial load time from 5 min to under 2s for 10+ researchers
- Engineered Python and DuckDB pipeline processing 44M+ sensor records from 12 IoT devices during battery material production, auto-repairing 180K+ inconsistencies in PostgreSQL for reliable material optimization insight
- Built and Dockerized Python ETL pipeline normalizing battery data into PostgreSQL, cutting analysis-ready time 92%; shipped GitHub Actions CI/CD with test-gated deploys across dev, QA and prod, preventing broken releases

University of Pittsburgh

Pittsburgh, PA

Undergraduate Teaching Assistant

August 2025 – December 2025

- Led recitations and office hours for 70+ students, simplifying DSA concepts to improve assignment pass rates
- Provided 1:1 Java debugging support, coaching recursion and Big-O analysis to reduce repeated student errors

FACET Lab @ University of Pittsburgh

Pittsburgh, PA

Machine Learning Research Assistant

May 2025 – September 2025

- Built Python RL simulator modeling learner behavior, implemented REINFORCE increasing action diversity 54% while maintaining 93% accuracy
- Designed duration-aware reward function, boosted long-duration actions 48% to capture confused and stuck states

i7 Consulting Group

Woodbine, MD

Software Engineer Intern

May 2025 – July 2025

- Developed Java Spring Boot REST APIs with role-based access control for timesheet approval workflows
- Implemented DTOs to decouple database entities from API responses preventing sensitive employee data exposure

PROJECTS

Chi Alpha Leaders App | *Typescript, React Native, Expo, Firebase*

- Built a React Native/Typescript + Firebase PWA serving 200+ Chi Alpha leaders and staff, unifying communication, weekly lesson plan distribution for Bible studies, and videos required for leadership training

SyncWave | *Next.js, Node.js, AWS Lambda, AWS SQS, DynamoDB, Spotify API, Youtube API*

- Built and deployed YouTube-to-Spotify playlist migrator with Lambda/SQS/DynamoDB, achieved 91% accuracy across 1,037 songs via Levenshtein matching

Open Ear | *Python, WebSockets, Deepgram, Twilio, OpenAI*

- Built real-time Python AI voice agent streaming bidirectional Twilio audio through Deepgram STT and LLM-generated responses, achieving sub-1s end-to-end response latency
- Engineered concurrent asyncio audio pipeline with buffered WebSocket synchronization and multi-threaded handlers to sustain continuous processing across live calls

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, Terraform, SQL, C, C++, HTML/CSS

Frameworks/Libraries: Flask, Spring Boot, Spring WebFlux, React, Next.js, Node.js

Cloud & Data: AWS, OCI, PostgreSQL, MongoDB, Redis, DuckDB

Tools: Git, GitLab, GitHub Actions CI/CD, Docker, Linux, k6