

DEEGAN K. ALBRECHT

Wilmington, NC • 919.265.9535 • deeganalbrecht@gmail.com • linkedin.com/in/deeganalbrecht

EDUCATION

North Carolina State University — College of Engineering

Raleigh, NC

Bachelor of Science, Computer Science

Coursework completed through Spring 2026

Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Database Management Systems, Software Development Fundamentals, Automata & Complexity Theory, Data Science, Game Development

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS, MATLAB, Assembly

Frontend: React, responsive UI, REST API integration

Backend: Node.js, REST APIs, PostgreSQL, MySQL, LLM API integration, authentication & access control

Cloud: AWS (RDS, S3), Azure (Azure OpenAI, storage and databases), Cloudflare Workers, Neon (serverless Postgres)

Tools & Platforms: Git/GitHub, Docker, Jenkins, VS Code, Linux, edge/serverless deployment

Domain: HIPAA-aligned design: access controls, audit logging, encryption in transit and at rest

EXPERIENCE

Freelance Software Developer

May 2026 – Present

Self-Employed — Wilmington, NC

- **Speech therapy application:** sole developer, built and shipped to production in two months, owning the full stack from data model through user interface.
- Integrated AI-assisted clinical note drafting and patient progress analysis behind a provider-agnostic abstraction layer, allowing the underlying model to be swapped without application changes.
- Architected the application around HIPAA Security Rule practices — role-based access control, audit logging, encryption at rest and in transit, and least-privilege data handling.
- Built with React, Node.js, PostgreSQL, and Cloudflare Workers; abstracted the persistence layer so the database can be swapped without changes to application logic.
- Client identities and source code withheld under NDA; architecture and technical decisions available to discuss.

Physical Therapy Technician

June 2024 – December 2024

EmergeOrtho — Raleigh, NC

- Built automation for patient intake forms, cutting manual data entry and reducing transcription errors in the onboarding process.
- Improved documentation workflows in Athena EMR, standardizing record entry across the clinic's technician staff.
- Served as the clinic's first-line technical contact for EMR and therapy software issues, diagnosing problems and escalating what could not be resolved on site.
- Troubleshoot network connectivity faults affecting access to medical records, restoring secure access to clinical systems.

PROJECTS

ROB-BOT — Web-Based Game

tinyurl.com/ROB-BOT

- Independently designed, built, and deployed a 7-level browser-based game in HTML.
- Hand-authored all game flow, branching level progression, and interface structure across linked pages without a game engine or framework.

CERTIFICATIONS

Google Cybersecurity Professional Certificate — Security operations, risk mitigation, network protection, incident response.

OSHA 10-Hour Certification — Workplace safety standards and hazard recognition.