

# Kennedy Gregg

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## EDUCATION

### Howard University

Bachelor of Science in Computer Science

Washington, DC

Expected: May 2027

- **Honors:** Dean's List (Fall 2024, Spring 2025)
- Google Tech Exchange Scholar
  - Selected for Google's semester-long Tech Exchange program focused on advanced computer science, software engineering, and applied AI learning with industry mentorship.

## EXPERIENCE

### The Home Depot Externship

AI Workforce Management Extern

Summer 2025

Acworth, GA

- Developed a final project proposal for an AI-powered scheduling tool that optimized workforce allocation by leveraging weather patterns, seasonal demand, and business trends.
- Collaborated with peers to design AI-driven solutions addressing workforce management challenges at scale.
- Presented solution recommendations demonstrating how predictive analytics and machine learning could improve operational efficiency.

### Undergraduate Research - NAVY & AAVE

Howard University

September 2025 - Current

Washington, D.C

- Designing LLM-based systems that, given an approaching vessel image and Navy documentation, generate tactical decision recommendations for naval officers.
- Conducting automated transcription research on African American Vernacular English (AAVE), focusing on regional variation and error patterns in speech recognition models to improve accuracy and fairness across dialects.

## PROJECTS

### Machine Learning Project | Python, C++, C#, ML-Agents

- Developed a learning AI using Python, C++, C#, and ML-Agents to complete tasks like obstacle avoidance and 2v2 soccer matches against AI opponents.
- Logged brain states every 5000ms to measure learning progress and compare performance over 1 week vs. 1 month of training.

### Vocalytics (Morgan Hacks Hackathon - 2nd Place Overall & Education Track Winners) | Python, Flask, SQLite, OpenCV,

Media Pipe, Speech Recognition, Gemini AI, Eleven Labs API, HTML/CSS, JavaScript

- Developed a Raspberry Pi-powered tool using Python, OpenCV, and Media Pipe to track speech patterns and posture in real-time, providing feedback for communication skill improvement.
- Engineered the backend using Flask and SQLite, set up the Raspberry Pi environment, and integrated AI for analysis and feedback.
- Aimed to support users like stroke survivors, public speakers, or physical therapy patients by offering a low-cost, portable system for monitoring progress outside clinical settings.
- Placed 2nd overall out of 35+ teams.

### Eido (BE Smart Hackathon) | FastAPI, Next.js, Supabase, OpenAI, Three.js, PostgreSQL, Suprememory, TypeSense | [DEMO](#)

- Built and deployed a full-stack AI learning platform (FastAPI + Supabase backend on Railway, Next.js frontend on Vercel) with JWT authentication, pgvector embeddings, and OpenAI integration for personalized study tools and user matching.
- Architected a scalable PostgreSQL schema (8+ tables) with typed Pydantic models, repository/service layers, and vector similarity search using 1536-dim OpenAI embeddings and IVFFlat indexing for real-time user recommendations.
- Created an interactive 3D knowledge graph using Three.js + 3d-force-graph featuring smooth camera controls, dynamic filtering, and optimized rendering for visualizing learning connections.

## TECHNICAL SKILLS

- **Languages:** Python, C++, C#, JavaScript, SQL, HTML, CSS
- **Tools & Frameworks:** Flask, Django, OpenCV, Media Pipe, SQLite, Gemini AI, Eleven Labs API, Speech Recognition, Raspberry Pi, Git, Machine Learning, Object-Oriented Programming