

Faris Eltayib

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EDUCATION

Northwestern University

Bachelor of Science in **Computer Engineering**

Evanston, IL

Expected Jun 2027

Awards/Honors: Questbridge National Match Scholar

Relevant Coursework: Scalable Software Architecture, Computer Systems, Data Structures & Algorithms, Intro to Web Dev, Machine Learning, Fundamentals of C and C++, Programming Language Concepts, Intro to Comp Eng

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C/C++, Java, HTML/CSS, SQL, Flutter, Dart, Swift, Kotlin

Software: AWS, Firebase, ReactJS, Node.js, Vite, AngularJS, Docker, FlutterFlow, Visual Studio, Git, GitHub, Xcode, Spring

WORK EXPERIENCE

Mntrme

Remote

Software Engineering Intern

June 2025 – Aug 2025

- Wrote end-to-end deployment documentation to improve transparency on **DigitalOcean** and **Xcode** infrastructure
- Automated testing suite generation using **Postman** to validate key app flows like video calling and messaging
- Integrated AI app moderation with OpenAI API for in-app text and voice communication with real-time filtering
- Resolved UI/UX issues across **Flutter** interfaces improving responsiveness and layout consistency
- Collaborated cross-functionally to debug production issues using **Dart**, **Firebase**, and **Flutter** tooling

Northwestern University College of Engineering

Evanston, IL

Frontend Developer

Jan 2025 – Mar 2025

- Spearheaded frontend development of KrisBot, a multi-tabbed **Streamlit** application in **Python** for uploading, processing, and refining user transcripts and articles with GPT-based functions.
- Resolved conflicts in session state management to maintain immediate, seamless UI updates throughout the app.

PROJECTS

Quranic Arabic Learning App

- Designed and developed a Quran study mobile app using **Flutter** and **Firebase** enabling users to learn and track 372 high-frequency Arabic words covering 85% of Quranic vocabulary
- Engineered backend code to automatically parse and normalize text using a **Java** API, reducing word duplication by 60%.
- Implemented offline-first support by preloading Quran and grammar data into local **SQLite** database, cutting cloud read operations by 90%, significantly reducing Firebase cost exposure for scale.

SEC Insight Engine

- Engineered a **Python**-based SEC EDGAR client automating ingestion of over 4,000+ regulatory filings, enabling real-time lookup of 10-K and 10-Q reports by company
- Developed serverless **AWS Lambda** functions that significantly reduced manual data processing time by 90%
- Integrated Amazon Bedrock (Claude 3 Sonnet) to deliver retrieval-augmented LLM responses, bringing financial analyses with the most recent SEC filings, improving research accuracy and decision-making speed.

Cats Course Ave

- Built an academic planning tool for Northwestern students using **Python** web scraping, and **JavaScript** to parse courses
- Used **ReactJS** and **TailwindCSS** for degree requirement visualization and interface and Firebase for user authentication
- Implemented a chatbot assistant using **Gemini** to guide users through course selection and interests

Medication Tracking App

- Built a **C++** app that connects to an ESP32 microcontroller via Bluetooth to track pill intake and daily streaks
- Designed a responsive UI in **React** to log pills, visualize history, and manage real-time device status
- Synced alarms from web app to **ESP32**, triggering lights and buzzers for medication reminders

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow

Washington, DC

Career Preparation Fellow

Jan 2025 – Present

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Deloitte, LinkedIn, and Adobe

Northwestern University Emerging Coders

Evanston, IL

Treasurer

Oct 2024 – Present

- Led fundraising efforts through strategic grant applications, obtaining \$8,700+ to support club-led tech workshops
- Launched a mentorship initiative for 40+ first-gen and low-income underclassmen in a career development events