

Femi Ajayi

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PROFESSIONAL SUMMARY

Frontend-focused software engineer with strong full-stack experience, specializing in large-scale search and discovery experiences. Proven track record of leading high-impact UX initiatives and AI-powered search features that drove measurable gains in conversion and enrollment. Founder at Kunolu, a software company shipping mobile and web applications, where I own product direction and frontend engineering across Flutter, Firebase, and GCP. Experienced in owning complex frontend projects, partnering with backend, ML, and data teams, and delivering scalable, accessible, and experimentation-ready user experiences.

PROFESSIONAL EXPERIENCE

Coursera Inc, Toronto, ON

Senior Software Engineer, March 2022 - Present

- Led the development of AI-powered Search Overviews and Natural Language search suggestions, leveraging the redesigned filter and search UX foundation to surface intent-aware results, driving a 5.41% increase in paid conversion and 1.71% increase in overall enrollment through improved discovery and query understanding
- Led the end-to-end redesign of Search Filters and Autocomplete across core Search pages, authoring technical design docs, coordinating frontend, backend, ML, and data stakeholders, and delivering a scalable, accessible UX foundation using the company's design system, enabling future intelligent search features and global rollout to millions of learners; led to a 4% increase in paid CTR and 6.6% increase in checkout start rate
- Led the front-end development of the New Multi-Page Onboarding, improving completion rates by 355%, increasing learner data collection by 4.17%, boosting logged-in enrollments by 5.04% and paid conversion by 2.56%, while reducing site exit rates by 24.85%, through optimized UX and eventing analytics
- Led the full-stack development of the Product Card Application, unifying product data across search and discovery surfaces, reducing front-end development time by 75%, and enabling seamless experimentation; improved product card performance using GraphQL federation, optimized UX, and streamlined data fetching, resulting in better discoverability and engagement
- Led the implementation of syllabus indexing in search, increasing search-based enrollment rates by 2.96% and reducing zero-result queries by 23% by enhancing content discoverability; optimized indexing to include course modules, lessons, and items, improving search relevance
- Led development of the Sort By New filter on the search page, increasing new content enrollments by 3.5% and overall search enrollment by 1.25% on the consumer platform
- Partnered with Data Science as the first engineer at Coursera to implement the new standardized eventing schema, enhancing data analysis capabilities, leading to the creation of intuitive dashboards, and enhancing non-data team members' ability to view metrics
- Led migration of the team's FE endpoints to GraphQL, achieving 100% usage across our owned pages
- **Technologies:** React, TypeScript, Python, Java, Scala, Claude Code, Cursor, Algolia, OpenSearch, DynamoDB, Amazon RDS, Redshift, Amplitude, Databricks, Docker, AWS, Apollo, Jest, EmotionCss, StylusCss, React Testing Library, Yarn, ESLint, Prettier, Jenkins, Jira, SQL, NoSQL

Kunolu, Toronto, ON

Founder & Software Engineer, January 2026 - Present

- Founded Kunolu, a two-person software company that designs and ships production mobile and web applications; own product direction and frontend/product engineering while my partner leads backend and security, shipping to the App Store and Google Play while working full time
- **Lovestruck** ([App Store](#) · [Google Play](#)): Designed and built our first product, a private couples app (daily prompts, one-tap pings, love notes, date ideas, home-screen widgets) in Flutter/Dart, live on iOS and Android with 100+ daily active users and ~\$500 in monthly recurring revenue from RevenueCat-powered subscriptions
- Owned the client architecture end to end: Flutter/Dart app split into domain controllers over a thin-client, server-authoritative model, plus a native iOS WidgetKit extension in Swift that shares state with the app through App Groups
- Built AI-powered date idea recommendations with Google AI (Gemini), enriched with the Google Maps/Places and Ticketmaster APIs, and shipped features across the serverless Firebase/GCP stack: Firestore, TypeScript Cloud Functions, FCM push, Remote Config, Crashlytics, App Check, and Analytics
- Set up CI/CD with GitHub Actions using keyless OIDC/Workload Identity Federation, auto-deploying develop and main branches to separate nonprod and prod Firebase projects behind unit, widget, and integration test gates; accelerated delivery with Claude Code and Codex agentic workflows
- **Cadence Health** ([mycadence.health](#)), **client engagement**: Contracted to design and build a healthtech analytics portal for managing and analyzing rheumatology patient self-assessments, currently in trial at a rheumatology clinic

- Built the Angular/TypeScript clinician portal with interactive charting dashboards (Chart.js, Highcharts) and Stripe billing, delivered against a Django REST Framework API on Google Kubernetes Engine with Cloud SQL for Postgres, Firebase Auth token verification, Docker, and Cloud Build
- **Technologies:** Flutter, Dart, Swift, TypeScript, Angular, Python, Django REST Framework, Firebase, GCP (GKE, Cloud SQL, Cloud Build), Google AI (Gemini), Google Maps API, RevenueCat, Stripe, FCM, GitHub Actions, Claude Code, Codex

Project Bunker, Toronto, ON

Lead Software Engineer, Apr 2021 - March 2023

- Developed Roomiez as the Lead Software Engineer; a mobile app for university student housing, available on iOS and Android
- Updated and maintained the platform supporting over 2,000+ users and over 100 households while in production
- **Technologies:** Flutter, Dart, Firebase, Cloud Firestore, Android, Xcode, React

CYBERDON INC, Bolton, ON

Software Engineer, Apr 2019 - April 2021

- Created and monitored a proprietary web application to help over 100+ clients report network and system problems, allowing the company to provide timely maintenance
- Used a wide range of tools for spreadsheets, word processing, database management, and other applications, greatly increasing company efficiency
- **Technologies:** JavaScript, HTML/CSS, Python, VBA, Excel, Quickbooks

PROJECTS

Movie Recommendation System

Jan 2021 - April 2021

- Created two different movie recommendation algorithms using both clustering and classification
- Utilized many different Python libraries, implementing both Content and Collaborative filtering techniques
- **Technologies:** Python, NumPy, Sklearn, SciPy, Surprise, Pandas, Protégé · [View GitHub Repo](#)

EDUCATION

Master of Engineering (MEng), University of Ottawa

Jan 2020 - April 2021

Chemical Engineering, with Specialization in Computer Science

- **2021 Canadian University Student Athlete Merit Scholarship & Academic All-Canadian**
- Extracurricular Activities: uOttawa Varsity Track and Field, Nigerian Students Association

Bachelor of Applied Science (BASc), University of Ottawa

Sept 2015 - Aug 2019

Chemical Engineering

SKILLS

- **Languages:** TypeScript, JavaScript, Dart, Python, Java, Scala, Swift
- **Frameworks:** React, Flutter, Angular, React Native, Django REST Framework, ElectronJS, Node.js
- **Cloud & Tools:** GCP (GKE, Cloud SQL, Cloud Functions, Cloud Build), AWS, Firebase, Docker, Kubernetes, GraphQL, Algolia, OpenSearch, DynamoDB, Amazon RDS, Redshift, Amplitude, Databricks, Apollo, Jest, RevenueCat, Stripe, GitHub Actions, Jenkins, Jira, MongoDB, ESLint, Prettier
- **AI Tooling:** Claude Code, Codex, Cursor, Vertex AI, Google AI (Gemini), DialogFlow
- **Other:** SQL, NoSQL, R, C, Unisim, Visio, MATLAB