

MUHAMMED AJMAL U K

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PROFILE SUMMARY

MCA student and Software Engineer passionate about designing and developing AI-powered applications and full-stack software solutions. Experienced in building production-ready web and mobile applications using Python, Flutter, Flask, Firebase, REST APIs, and LLM integrations. Strong interest in AI agents, cloud technologies, and developing innovative software products with real-world impact.

TECHNICAL SKILLS

Programming Languages	Python, Java, C, C++, JavaScript, SQL
Frontend Development	HTML5, CSS3, React.js, Responsive Design
Backend & APIs	Flask, REST APIs, Firebase
Mobile Development	Flutter, Dart, Cross-platform Development
Databases	MongoDB, SQL, Supabase, Firestore
AI & ML Tools	Gemini API, ChatGPT, Claude, DeepFace, OCR Tools
Cloud & Deployment	Cloudflare, Netlify, PythonAnywhere, Vercel, Google Cloud
Dev Tools & IDEs	Git, GitHub, VS Code, Android Studio, Postman, Kiro, Cline

EDUCATION

College of Engineering, Trivandrum	2025 – 2027
Master of Computer Applications (MCA) – APJ Abdul Kalam Technological University	90.9%
Mahatma Gandhi College, Iritty	2022 – 2025
Bachelor of Computer Science – Kannur University	89.7%
GHSS Ulikkal	2020 – 2022
Higher Secondary Education – Kerala Board of Public Examination	90.8%

PROJECTS

ToolPix – AI-Powered Productivity Platform	Python, Flask, Gemini API, JS, HTML, CSS
Independently designed and developed a production-ready AI-powered productivity suite. Link: toolpix.pythonanywhere.com - Built Flask backend, integrated Gemini API, OCR tools, PDF processing utilities, image engines, online compilers, and AI web tools. - Implemented AI SEO strategies generating over 600K+ organic Google Search clicks and 14M+ search impressions.	
Dementia Virtual Memory Assistant	Flutter, Flask, Firebase, DeepFace, Google Maps API
Cognitive-support mobile app for dementia patients and caregivers featuring AI facial recognition. Link: github.com/ajmaluk/dementia-virtual-memory - Built AI face recognition via DeepFace (ArcFace), real-time location tracking, emergency alerts, and caregiver controls. - Leveraged Agentic IDEs (Kiro/Cline) to significantly accelerate development cycles and system reliability.	
Explore Together – B.Sc. Major Project	Flutter, Firebase Auth, Firestore, Cloudinary, OneSignal
Cross-platform travel companion app helping solo travelers connect and match trips. Link: github.com/ajmaluk/explore-together Developed in a 3-member team; contributed to Flutter UI, Firebase Auth, Firestore, push notifications, and cloud media.	
KallanCop – Local Multiplayer Social Deduction Game	Flutter, Local Wi-Fi / Hotspot, QR Sync
Privacy-first multiplayer card-style social deduction party game published on Google Play. Link: play.google.com/store/apps/details?id=com.ajmal.kallancop Implemented local Wi-Fi/Hotspot multiplayer connectivity and QR room joining; managed complete Play Store release lifecycle.	

CERTIFICATIONS

• Introduction to Artificial Intelligence – IBM / Coursera	• Introduction to Software Engineering – IBM / Coursera
• Prompt Engineering with GitHub Copilot – Microsoft	• The Joy of Computing using Python – NPTEL
• Deloitte Data Analytics Virtual Experience – Deloitte / Forge	• Discover the Art of Prompting – Coursera
• Maximize Productivity with AI Tools – Coursera	• Oracle Cloud Infrastructure 2025 AI Foundations Associate – Oracle

ACHIEVEMENTS

- Built ToolPix, reaching 600K+ organic Google Search clicks and 14M+ search impressions.
- Published KallanCop on Google Play, managing end-to-end product development, testing, and distribution.
- Achieved Google Cloud Arcade Champion Tier by completing advanced Google Cloud infrastructure labs.

SOFT SKILLS

Problem Solving	Team Collaboration	Communication
Software Development	Product Thinking	Leadership
Self-Learning	Adaptability	Time Management

LANGUAGES

Malayalam (Native) | English (Professional) | Hindi (Conversational)