

Pronab Karmaker

Email: cse.pronab@gmail.com | Phone: +44 07538333870 | LinkedIn: [linkedin.com/in/pkarmaker1](https://www.linkedin.com/in/pkarmaker1) | GitHub: github.com/pronab101

Professional Summary

Results-driven Software Engineer with 7+ years of experience in mobile and web application development, specializing in Android (Java, Kotlin) and Flutter. Skilled in full-stack development, cloud technologies, and DevOps. Developed an AI-powered Voice Tour Guide Map App for my MSc project. Passionate about leveraging AI in mobile applications to enhance user experience.

Skills

- Programming Languages: C, C++, Java, Dart, Python, R, Kotlin, PHP
- Frameworks & Libraries: Spring Boot, RESTful APIs, SOAP, J2EE, Firebase Auth
- Web Development: HTML, CSS, JavaScript, JSON, MySQL
- Mobile Development: Android (Java, Kotlin), iOS (Xcode), Flutter
- AI & Large Language Models: LLMs (GPT, LLaMA, CodeBERT, StarCoder), Prompt Engineering, Fine-tuning, LLM Agents, Hugging Face Transformers, TensorFlow Lite, NLP, Computer Vision, AI Chatbots.
- DevOps & Tools: AWS, Docker, Git
- Others: Project Planning, Data Synchronization, Agile Development
- Development Tools: Android Studio, Xcode, Visual Studio Code, GitHub, Bitbucket

Work Experience

Top Soft IT, Sylhet, Bangladesh

Software Engineer | December 2016 – September 2023

- Developed advanced Android and iOS applications.
- Led the development of cross-platform mobile apps using Flutter and Firebase.
- Designed RESTful APIs and integrated backend services to improve app performance.
- Mentored junior developers and collaborated with designers for UI/UX enhancements.
- Optimized application load times, reducing latency by 30% through efficient API calls.

MSc Project: AI-Enhanced Landmark Recognition For Self-Guided Tour Application Using Large Language Models

University of Bedfordshire

- Developed a Flutter-based mobile app that provides real-time AI-powered voice guidance for tourists.
- Implemented TensorFlow Lite for landmark recognition.
- Enabled Large Language Model(LLM) integration for interactive landmark discussions.
- Hugging Face models integration for cloud base landmark classification.
- Optimized image processing to enhance detection accuracy, improving recognition rates by 40%.

Education

Master of Computer Science

University of Bedfordshire, UK | 2024 – 2025

Classification: Distinction

Bachelor of Science in Engineering (Computer Science & Engineering)

Metropolitan University, Bangladesh | 2012 – 2016

Grade: 3.04/4.0

Certifications

- Artificial Intelligence Fundamentals (IBM, July 2024)
- Networking Essentials (Cisco Networking Academy, May 2024)
- NDG Linux Essentials (Cisco Networking Academy, April 2024)
- Microcontroller & Robotics Course (Metropolitan University, Sylhet, Autumn 2014) – Successfully completed this 32-hour course

Honors & Awards

- 1st Place in Sylhet Science Fair for Chashir Hasi Android Application (2016)
- 1st Place in SUST Project Fair for Chashir Hasi Android Application (2015)

Publications

- AI-Enhanced Landmark Recognition for Self-Guided Tour Application Using Large Language Models – Submitted to CUI 2025 Conference.
- Low-Cost Wireless Electronic Braille Reader
American Academic & Scholarly Research Journal, September 2015