

Gurnoor Singh Pannu

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SUMMARY

Computer Science undergraduate at Thapar Institute of Engineering and Technology with hands-on experience spanning native Android and cross-platform mobile development (iOS, desktop, web), backend systems, cloud infrastructure, DevOps, and ML. Have shipped production apps across platforms, built and deployed backend services, set up cloud and DevOps workflows, and integrated ML models — both independently and in teams. Motivated by solving real problems and comfortable picking up whatever the project needs.

TECHNICAL SKILLS

Languages: Kotlin, Python, C, C++, JavaScript, SQL, R, MATLAB

Mobile & Frontend: Jetpack Compose, KMP, Android SDK, MVVM, Retrofit, Figma, Canva

Backend & Web: Node.js, Express.js, REST APIs, Nginx

Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, Ansible, GitHub Actions, Jenkins, Linux

Databases: MongoDB, MySQL, SQLite, Firebase Firestore

Parallel Computing: CUDA, OpenMP, OpenCL, OpenACC

ML & AI: TensorFlow Lite, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, CNNs, Transformers, LLMs, LSTM, Word Embeddings, Image Processing

Concepts: OOPs, DSA

EXPERIENCE

Mifos Initiative

Dec 2025 – Present

Kotlin Multiplatform Developer

- Contributing to fintech ecosystem serving 10M+ clients, bridging the digital divide for the unbanked.
- Spearheaded KMP migration of Field Officer App, ensuring 100% web parity for field operations.
- Engineered Jetpack Compose Loan Summary UI, resolving UX gaps via dynamic filters.

Talkeys

Oct 2024 – May 2026

Co-Founder & Technical Lead

- Architected KMP mobile client and GCP backend with Docker and Nginx, scaling to 3.5k+ active users.
- Orchestrated 8+ major events, integrating QR validation and PhonePe for seamless on-ground operations.
- Directed product design, marketing campaigns, and community outreach to drive user acquisition.

Humble Coders

Jan 2025 – Oct 2025

App Developer

- Shipped 3+ KMP apps, translating complex Figma designs into clean, production-ready code.
- Collaborated with cross-functional teams to streamline delivery in a fast-paced environment.
- Authored source code for a Udemy Android Course, teaching MVVM to global students.

PROJECTS

Talkeys

[Link]

- Built KMP mobile client with MVVM + Mediator pattern, offline-first LRU caching, and encrypted token storage.
- Engineered Express.js backend with QR ticketing and PhonePe payment integration for 12+ live events.
- Deployed containerized full stack on GCP with Docker and Nginx, maintaining 99.9% uptime.

ForeSight

[Link]

- Designed an AI-powered Android memory optimizer that predicts the user's next app every 5s to speed launches.
- Implemented app pre-warming and freeze/protect decisions to cut cold starts and memory thrashing.
- Built on-device learning with TFLite, Room logs, and simulator tests, achieving 79% accuracy and 87% cache hits.

StoryWorld

[Link]

- Developed an AI creative studio with SwiftUI, Gemini, and Shap-E to convert prompts into 3D characters.
- Enabled character placement in live AR or downloaded scenes via ARKit, RealityKit, and custom GLB loading.
- Integrated prompt-based video generation with MiniMax and Vision APIs to enable customizable AI filmmaking.

EDUCATION

Thapar Institute Of Engineering And Technology

Bachelor of Engineering in Computer Science

Spring Dale Senior School

Senior School

Patiala, Punjab

Aug. 2023 – May 2027

Amritsar, Punjab

Aug. 2018 – May 2023