

POOJAN KANERIYA

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EDUCATION

Master of Science in Computer Science , University at Buffalo, Buffalo, NY (GPA – 3.93/4)	Aug 2024 – Dec 2025
Courses: Algorithm Analysis and Design, Machine Learning, Deep Learning, Data Intensive Computing, Predictive Analytics.	
Bachelor of Engineering in Computer Engineering , Gujarat Technological University, India (GPA – 9/10)	Aug 2019 – May 2023

SKILLS

• Programming Languages:	Python, Kotlin, Java, Swift, TypeScript, JavaScript, C++.
• Frameworks & Libraries:	Node.js, Express, React, Next.js, FastAPI, PyTorch, TensorFlow, Jetpack Compose..
• Backend & Databases:	PostgreSQL, MongoDB, Firebase, Redis, RESTful APIs, GraphQL, WebSockets, Microservices.
• Cloud & DevOps:	AWS, Google Cloud, Docker, Kubernetes, CI/CD, GitHub Actions.
• AI/ML & Data Systems:	Generative AI, Anomaly Detection, Foundation Model Tuning, Agent Design, Model Evaluation.

EXPERIENCE

Software Engineer , <i>University at Buffalo, NY, USA</i>	Aug 2025 – Dec 2025
• Drove the end-to-end booking journey across React Native + Node.js REST services, defining contracts, pagination, and error semantics to handle reschedule/cancel/refund flows. Lifted booking conversion by 18% and cut time-to-book by 30%.	
• Accelerated app starts with lazy loading, memoization, and image caching. Cold start 35% faster, 99% crash-free.	
• Architected push + media pipelines (FCM topics/user scopes, AWS S3 pre-signed uploads with background retries, and CloudFront), enabling photo-based diagnostics, decreased gallery load p95 by 40%, and reduced no-show rates by 15% via reminder notifications.	
• Implemented offline-first scheduling and service history using SQLite with queued sync, plus JWT refresh and secure storage.	
• Coordinated CI/CD with GitHub Actions and Fastlane and added smoke tests, reducing regressions and speeding releases.	
Software Engineer , <i>IQ Infinite Technologies, India</i>	Aug 2023 – July 2024
• Architected scalable Android systems using Kotlin (MVVM) and RESTful APIs , optimizing performance, improving accessibility, and increasing user engagement by 35% through data-driven UX and telemetry analytics.	
• Engineered a secure POS platform handling 1K+ daily transactions with Node.js , PostgreSQL , and WebSockets , enhancing latency, fault tolerance, and transaction reliability by 20% under peak loads.	
• Unified iOS/Android data via real-time sync, improving cross-device consistency and cutting platform-specific defects by 20%.	
• Directed microservice pipelines and CI/CD automation with Docker , AWS , and Kubernetes , reducing deployment downtime by 25% and reinforcing system resilience through health checks and rolling updates.	
• Enhanced retention by 8% through new FCM notifications and extended MVVM features supporting 1K+ daily payments.	

Software Engineer Intern , <i>Archadia Virtual Pvt Ltd, India</i>	Feb 2023 – July 2023
• Engineered modular Android features with Kotlin , Jetpack Compose , and Android SDK , setting clean architecture, reusable UI components, and thread-safe state flows. Cut render latency by 18% and improved feature delivery speed by 20%.	
• Collaborated with QA and teams in Agile sprints, raising automated unit/integration coverage to 90% and shortening release cycles.	
• Integrated Firebase Cloud Functions , Firestore, and secure authentication with role-based access, batched writes, and on-device caching. Scaled to thousands of MAUs with sub-200 ms p95 reads and minimal backend load.	
• Profiled with Android Profiler and LeakCanary to resolve leaks and GC thrash, reducing UI dropped frames by 25%.	

CERTIFICATIONS

- AWS Certified Developer – Associate ([Verify](#))

PROJECTS

S2S Connect App React Native, Node.js, Firebase	
• Built a social networking app with 10K+ DAUs using React Native and Firebase Authentication for secure cross-platform compatibility.	
• Designed a Node.js backend deployed on AWS EC2 , supporting scalable microservices with Cloud Messaging for real-time updates.	
• Performed load and integration testing to ensure the app handled concurrent users with low latency and high availability.	
• Designed a MongoDB schema optimized for read-heavy workloads, improving consistency and supporting atomic operations.	
Trello Clone – Project Management App Java, Firebase, Android SDK, MVC Architecture	
• Developed a Trello-like app for task collaboration with real-time sync and cloud file storage via Firebase Firestore and Cloud Storage .	
• Integrated RecyclerView, ViewPager, and custom dialogs for dynamic drag-and-drop task handling and smooth UI interactions.	
• Refined user authentication with Firebase Auth for secure multi-user workspaces and real-time data consistency.	
• Adopted MVC principles, ensuring modularity, scalability, and offline functionality across the Android architecture.	
Road Scene Segmentation for Autonomous Driving PyTorch, OpenCV, NumPy, Matplotlib	
• Constructed U-Net and DeepLabV3+ models in PyTorch for semantic segmentation of vehicles, pedestrians, and drivable areas.	
• Boosted accuracy to >80% mIoU using attention layers and hybrid losses for sharper boundaries and small-object detection.	
• Refined training with adaptive learning rates and data augmentation to improve model robustness and generalization.	
• Evaluated on Cityscapes and KITTI datasets using mIoU and precision metrics for reliable autonomous inference.	