

# Pushkar Agnihotri

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## EDUCATION

<b>California State University, Fullerton, USA</b> Master of Science, Computer Science (Software Engineering Minor)	<i>Aug 2024 - May 2026</i>
<b>Government College of Engineering Aurangabad, Maharashtra, India</b> Bachelor of Engineering, Computer Science	<i>Aug 2016 - May 2020</i>

## TECHNICAL SKILLS

**Languages:** Kotlin, Java, JavaScript, Python, SQL  
**Frameworks:** Jetpack Compose, Kotlin Multiplatform, React.js, Node.js, Next.js, Express.js, Spring Boot  
**Databases:** MySQL, PostgreSQL, MongoDB, Room DB, Realm DB, Vector DB  
**Cloud & DevOps:** AWS, Azure, Google Cloud, Firebase  
**Other Skills:** Git, MVVM, REST APIs, GraphQL, Dependency Injection, JSON, SOLID Principles, Scrum, Agile

## PROJECTS

<b>AI-Powered Yoga Studio Web App (LangChain, RAG, OpenAI)</b> <a href="#">Website</a>	<i>Jun 2025 - Jul 2025</i>
<ul style="list-style-type: none"><li>Built and deployed a full-stack AI-driven web platform featuring a Retrieval-Augmented Generation (RAG) chatbot for personalized yoga recommendations using <b>OpenAI GPT</b>, <b>Pinecone</b>, and <b>ChromaDB</b>.</li><li>Designed scalable backend architecture with <b>Node.js</b> microservices, <b>WebSockets</b>, enabling real-time chat, semantic search, and automated knowledge management.</li></ul>	
<b>Full Stack KMP APP with Spring Boot Backend</b>	<i>Sep 2025 - Oct 2025</i>
<ul style="list-style-type: none"><li>Developed a cross-platform Kotlin Multiplatform (KMP) app with a shared <b>Ktor</b> HTTP client and <b>Spring Boot</b> backend, reducing code duplication and improving development efficiency.</li><li>Implemented high-concurrency RESTful APIs with Kotlin Coroutines, Spring Data R2DBC, and <b>PostgreSQL</b>, securing endpoints via JWT authentication and achieving low-latency communication.</li></ul>	

## WORK EXPERIENCE

<b>Carnot Technologies Private Limited, India   Senior Software Engineer (Android)</b>	<i>Jan 2021 - July 2024</i>
<ul style="list-style-type: none"><li>Led adoption of <b>Model-View-ViewModel</b> architecture across 3 Native Android apps, enabling faster feature rollout, reducing production bugs by 25%, and simplifying onboarding for new developers.</li><li>Designed and deployed an <b>in-house SDK</b> featuring gamification elements, driving a 20% increase in in-app purchases and a 15% boost in customer retention through repeat recharges.</li><li>Redesigned the app into a <b>multi-module project</b>, optimizing code structure, enhancing maintainability, and enabling faster, independent development and testing.</li><li>Enhanced user experience and application resilience by implementing <b>offline-first</b> functionality. Also, refined data models for efficient local storage and synchronized data with a backend server using <b>WorkManager</b>, ensuring seamless operation even in low-connectivity environments.</li><li>Integrated <b>Firebase</b>, <b>CleverTap</b>, <b>UXCam</b>, and other customer engagement and performance platforms to monitor user behavior, analyze segmentation, and deliver personalized user experiences, enhancing user satisfaction.</li><li>Contributed to the app's overall success, helping it surpass <b>1 million downloads</b> on Google Play through architectural improvements and feature scalability.</li></ul>	
<b>Software Engineer (Android)</b>	
<ul style="list-style-type: none"><li>Proposed and led the <b>Integration of a third-party app</b> into our core product, expanding feature offerings under one roof and driving a 40% increase in user base.</li><li>Used <b>Baseline Profiles</b> to shift performance-sensitive code from <b>Just-In-Time</b> (JIT) to <b>Ahead-Of-Time</b> (AOT) compilation, reducing app startup time by 27% and enhancing user experience.</li><li>Implemented <b>Gradle Version Catalogs</b> to simplify and standardize dependency management across all projects, centralizing libraries for 20+ modules, ensuring consistent versioning, and enhancing scalability.</li><li>Migrated legacy Android apps from <b>Java</b> to <b>Kotlin</b> and replaced <b>RxJava/RxAndroid</b> with <b>LiveData</b> and <b>Coroutines</b>, resulting in more concise, maintainable, and idiomatic Kotlin code.</li></ul>	

## ACCOMPLISHMENTS

- Winners of **Smart India Hackathon 2019**.
- Awarded the title of **Runner Up** by Microsoft at MS Hack 2.0.

## MENTORSHIP & LEADERSHIP

- Mentored junior Android engineers at Carnot Technologies on MVVM, Kotlin Coroutines, and app architecture.
- Published Medium articles on AI-powered app design and cross-platform Kotlin; collectively reached 300+ readers.

## CERTIFICATES

- [Google Cloud Computing Foundations Certificate](#)
- [AWS Knowledge: Serverless Computing](#)
- [Spring Boot 3](#)