

# SHASHANK SINHA

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 [LinkedIn Profile](#) |  [GitHub Profile](#)

## SUMMARY

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Android Engineer with 3+ years building scalable, high-performance apps in **Kotlin (Jetpack Compose, MVVM, multi-modular)**. Strong analytical, problem-solving, and collaboration skills with a keen interest in **Kotlin Multiplatform Mobile** and **Generative AI** to drive cross-platform innovation.

## EDUCATION

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**Otto von Guericke University** | Magdeburg, Germany  
Master of Science in Digital Engineering

*Grade: 1.7*  
Oct 2023 - Present

**University of Delhi** | Delhi, India  
Bachelor of Engineering in Instrumentation & Control Engineering

*Grade: 2.0*  
Aug 2016 - May 2020

## PROFESSIONAL EXPERIENCE

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**Android Developer - Working Student**  
Algorist

Aug 2024 - Present  
*Berlin, Germany*

- Developing a multi-modular service booking app in **Kotlin** with **MVVM** and **Jetpack Compose**, ensuring a scalable, maintainable, and testable codebase.
- Architected reusable modules for authentication, camera, and real-time chat, integrating them into three internal apps to promote clean architecture and streamline future development.
- Engineering a robust chat with secure video calls, using **LiveKit**.
- Implemented secure access and refresh tokens to manage sessions and enhance app security.
- Adopting **agile** practices and **TDD** to deliver production-grade code, manage sprints and workflows in **Jira**, and automate **CI/CD** with GitHub Actions.

**Software Engineer**  
Samsung Research and Development

Feb 2021 - Sep 2023  
*Noida, India*

- Led core development of **Samsung's global power-saving** feature, collaborating with Korean HQ to ensure stability and resolve 600+ high-priority issues.
- Modernized a legacy MVC codebase to **Kotlin** with **MVVM** and **unit tests**, raising coverage from **30% to 90%** and significantly improving maintainability.
- Developed a **RASA** chatbot to track employee tasks and projects, boosting task completion by **40%** and earning the Best Squad Award.
- Reduced app size by **35%** and enhanced security with **ProGuard**.

## PROJECTS

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### Food Recommendation Application

- Led development of a QR-based food ordering app in **Java & Firebase**, enabling users to quickly order top-recommended food and drinks.
- Built a sentiment analysis model with **RNNs** on customer reviews to recommend top food options, achieving over **92%** precision.

## Three-Player Chess

- Designed and built a unique 3-player hexagonal chess game using clean code principles.
- Implemented checkmate detection, legal move highlights, and two novel pieces to enrich gameplay.

## SKILLS

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<b>Programming Languages:</b>	Kotlin, Java, Python
<b>Frameworks/Technologies:</b>	Jetpack Compose, LiveKit, RESTful Services, GraphQL, Firebase, Hilt & Koin, MVVM & MVI architecture
<b>ML &amp; Python Libraries:</b>	Scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow Lite, RASA
<b>Databases:</b>	Room, SQL, SQLite
<b>Testing Tools:</b>	JUnit, Espresso, Mockito
<b>Version Control &amp; CI/CD:</b>	Git, GitHub, GitHub Actions, Helix Swarm, Perforce
<b>Methodologies:</b>	Agile, Scrum, Kanban, Test-Driven-Development
<b>Soft Skills:</b>	Problem-Solving, Presentation, Self-Motivation, Team Collaboration
<b>Languages:</b>	English (C1), German (B1 – learning)

## LEADERSHIP & ACHIEVEMENTS

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### Best Squad Award

- Won the Best Squad Award for developing an intuitive chatbot that streamlined team workload management.
- Helped improve team productivity, accountability, and overall workflow efficiency.

### Samsung Professional Certification

- Cleared Samsung's Software Professional Certification, a rigorous test of advanced coding and analytical skills.
- Solved 800+ problems on LeetCode and GeeksforGeeks, showcasing strong data structures and algorithms skills.

### Founding Member and Vice President of The Debugging Society

- Founded the university's Technical Society, leading 2 hackathons and 10 workshops yearly to boost the skills of 200+ students.
- Conducted workshops in Android, Java, and Data Structures, boosting technical skills and raising internship placements by 40%.