Uttkarsh Chugh

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SKILLS

- **Languages & Tools**: Java, Kotlin, SQL, Git, Postman, JUnit, Mockito, AssertJ
- **Backend Frameworks & APIs**: Spring Boot, Spring Security, Hibernate, REST APIs
- **Android Development**: Jetpack Compose, Dagger, Hilt, Retrofit
- **Databases & Storage**: PostgreSQL, Firebase (Firestore, Realtime DB), Room, SQLite

PROJECTS

InstaStudio *Link* — Jan 2025 – Present
Photography Studio Management System — *Spring Boot, REST APIs, Android (Kotlin, Jetpack Compose)*

- Architected and developed a full-stack studio management platform featuring a native Android app and Spring Boot backend, supporting **3 distinct user roles** with secure, role-based workflows.
- Designed dynamic Jetpack Compose UIs for managing studios, events, members, and resources, streamlining task flows and improving responsiveness across multiple user types.
- Developed modular **backend APIs** for event scheduling, team assignments, and studio configuration using Spring Security, JWT, and a clean layered service architecture to ensure scalability and maintainability.
- Delivered a high-quality codebase by implementing **20+ REST endpoints** thoroughly tested with JUnit and Postman, while applying DTO mapping, clean architecture, and comprehensive unit tests for seamless Android-backend integration.

Veggito *Link* — Sep 2024 - Nov 2024
D2C E-Commerce Platform — *Android (Kotlin, Jetpack Compose), Firebase*

- Developed a scalable Direct-to-Consumer (D2C) Android platform **50+ live product listings** using Firebase Realtime Database, supporting essential features like product add/delete and catalog browsing with responsive UI updates.
- Drafted a basic price prediction model using market-inspired logic for assist in estimating prices; early tests showed potential to reduce pricing mismatches by around **15–20%** during simulations.
- Simulated **B2B collaboration** with 5+ agro-tech startups to test resource allocation, improve workflows, streamline seller onboarding, and boost system efficiency through planning logic and feedback supported by realistic data flows.
- Improved platform scalability by evaluating the prototype with **10+ testers**, resolving performance issues, refining UI/UX, enhancing user flow, and documenting usability challenges, layout inconsistencies, and functional gaps.

EXPERIENCE

Adversarial Nibbler Program – Google — Oct 2024 – Jan 2025
AI Safety & Responsible AI Research — *Punjab*

- Conducted **50+ adversarial prompt experiments** to identify vulnerabilities in generative AI systems, reducing unsafe output generation through consistent evaluation, categorization, and mitigation efforts.
- Designed and executed **10+ testing strategies** to improve evaluation accuracy by 34% and enable fine-tuning of detection pipelines
- Simulated unsafe prompt scenarios across categories, generating data that enhanced responsible AI filters and auditing tools.
- Strengthened prompt engineering knowledge, facilitating model improvements for safer responses.

Smart India Hackathon (SIH) Semi-Finalist — Aug 2024 – Sep 2024
Lovely Professional University — *Punjab*

- Proposed a D2C supply chain platform reducing middlemen by 87%, boosting local seller revenue and simplifying rural logistics.
- Built an inventory management system using Firebase, managing real-time data for over **50 product listings**
- Presented the prototype before representatives of **MSME (India)** to seek funding and feedback, establishing the idea's relevance and scalability in government-aided rural initiatives through direct engagement and formal presentation rounds.
- Used beginner-friendly tools for collaboration among 5 members, aligning UI/UX, functionality and goals under strict timelines.

CERTIFICATIONS

*Cloud Computing –***NPTEL** *Link* — *Oct 2024 – Jan 2025*
Complete Machine Learning & Data Science Program – **GeeksForGeeks** *Link* — *June 2024 – Dec 2024*

EDUCATION

Lovely Professional University — Grade - 8.28 CGPA
B.Tech. Computer Science Engineering — *Graduating May 2026*