

# Shubham Goyal

BITS Pilani, Hyderabad Campus — B.E. (Hons.) Computer Science 2021–2025

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US Citizen (No work authorization required)

## Work Experience

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### Software Development Engineer I (Backend) — Navi

July 2025 – Present

Building scalable backend systems in Java and Kotlin for credit underwriting strategies driving millions in revenue. Helped re-architect a high-scale Customer Device Service (100K RPM) reducing infrastructure costs by over 50%. Built an end-to-end QA testing suite for underwriting reliability and supported migration of services from AWS to OCI while improving alerting and monitoring for operational stability.

### Data Science and Backend Intern — Scapia

May 2024 – Dec 2024

Developed a Credit Fraud Risk Analysis API in Spring Boot for real-time fraud scoring using decision trees in Python to extract signals from third-party social profiling APIs. Built a Merchant Mapping Automation Tool increasing mappings from 800 to 32,500 and reducing maintenance by 90%. Also built the Smart Forex Experience for analyzing transactions and displaying real-time currency limits and trip summaries.

### Engineering Intern — Scapia

June 2023 – July 2023

Optimized PDF generation using Dart and Spring Boot reducing latency by 90% with a new production service used for booking and cancellation PDFs. Managed AWS deployment and log monitoring and implemented analytics with Mixpanel events and Firebase Remote Config.

### Engineering Intern — Scapia

July 2022 – Aug 2022

Built initial screens and flows for the app's beta version using Flutter and implemented multiple app flavors enabling seamless switching between Production and Sandbox environments.

### Student Intern — Cisco

July 2019 – Jan 2020

Built a Python + SQL desktop system allowing receptionists to schedule substitute teachers for absent teachers.

## Projects

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### Citrana AI (2024) — citrana.in

Built an AI-powered market research platform generating dashboards covering competitor analysis, customer personas, and insights from social media posts. Developed the backend in Python + FastAPI integrating OpenAI, Perplexity API, Serp API and Reddit Search API while managing AWS deployment and contributing to the React frontend.

### Rideshare BPHC (2024) — play.google.com/rideshare-bphc

Designed and launched a Flutter mobile application enabling campus students to organize rides and carpool trips efficiently.

### Celebrity Face Generation (Generative AI) (2024)

Explored latent space arithmetic in GANs to manipulate facial attributes such as adding glasses by computing vector differences. Also used CycleGANs to transform faces between genders.

### AI Chess Bot (2023)

Created a chess engine using Python and C implementing alpha-beta pruning with DFS based search and customizable graph depth.

### E-Commerce Website (2022)

Built a full stack platform using React.js, Spring Boot and PostgreSQL with features including carts, wallets, authentication sessions, confirmation emails and admin dashboards.

## Achievements

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Global Nominee — NASA International Space Apps Challenge (2019) App Development Lead — Google Developer Student Club BPHC (2023)

2nd Place — SEEP 2.0 Entrepreneurship Program (2024) 1st Place — Camp K12 Hackathon & Investor Pitch, IIM Bangalore (2018)

Finalist — Teen Turks Entrepreneurship Competition (1200+ participants) 3rd Place — NASA Space Apps Challenge Bangalore (2018)