

Shwetank Agarwal

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Software Development Engineer with hands-on experience building fintech products end-to-end — backend APIs, payment integrations, and responsive Angular frontends.

EDUCATION

- Amity University — Panvel, Navi Mumbai**
B.Tech in Computer Science (AI & ML) | Minor: Animation • CGPA: 8.57
Aug 2021 – June 2025
- Amity International School — Lucknow, Uttar Pradesh**
12th Grade: 98.4% (School Topper) | 10th Grade: 93.6%
Graduated July 2021

PROFESSIONAL EXPERIENCE

- BharatNXT — On-Site | Software Development Engineer 1 (SDE-1)**
Jan 2025 – Present
Tech Stack: Spring Boot, Angular, PostgreSQL, Golang (Gin), Python (FastAPI), RabbitMQ, Docker

BharatNXT Collect — Payment Links & QR Collections (Angular)

- Built the complete collector-facing frontend for **BharatNXT Collect**, a new product enabling business owners to collect payments from buyers via shareable payment links and QR codes, with credit card support.
- Developed the end-to-end responsive onboarding funnel — landing page → phone number capture → OTP verification → bank details — optimised for both desktop and mobile viewports.
- Designed and implemented the collector dashboard with collection summaries (received, processing, active buyers), a real-time transaction feed with settlement statuses, and quick actions for payment links, QR sharing, and buyer management.

Spring Boot (Backend APIs & Integrations)

- Implemented bank account verification flow integrating the Befisc service for real-time validation.
- Developed Phone-to-VPA gridlines API enabling seamless UPI address resolution.
- Built lending integrations with Muthoot Finance and Fatak Pay, handling loan origination and disbursement workflows.
- Engineered a CVV-less payment flow for credit card transactions, improving checkout conversion.
- Created VPA validation gridlines to verify and validate virtual payment addresses.
- Designed asynchronous workflows using RabbitMQ queues for reliable, decoupled inter-service communication.

Golang (Gin Framework)

- Developed wallet load functionality supporting credit card and UPI payment methods.

Angular (Frontend & Admin Dashboard)

- Refactored admin dashboard with OCR integration to auto-extract data from uploaded invoices.
- Built an invoice review interface rendering documents in an iframe with extracted text fields displayed side-by-side for comparison and verification.
- Implemented approval and rejection workflows for invoice processing within the dashboard.

Python (FastAPI)

- Built a credit insights microservice leveraging the Gemini API to generate personalised insights from user credit reports.

MCP Server & Client

- Developed a Model Context Protocol (MCP) server in Golang and an MCP client using the Gemini JS SDK for real-time, context-aware data exchange.

PostgreSQL & Analytics

- Wrote complex PostgreSQL queries for analytics dashboards — tracking API call volumes, request/response payload analysis, and date-based usage trends.

Deployment & DevOps

- Independently deployed Spring Boot, Golang, and Angular services to production, managing the full build-deploy lifecycle.

TECHNICAL SKILLS

Languages: Python, Java, Golang
Web & Frameworks: HTML, CSS, JavaScript, TypeScript, React, Angular, Node.js, Express.js, Spring Boot, FastAPI, Gin

Databases: PostgreSQL, MongoDB

Tools & Infra: Git, GitHub, Docker, RabbitMQ

Other: Problem-Solving, Competitive Programming, System Design

PROJECTS

Interview AI

- Built an AI platform to help candidates ace interviews using the Gemini API and text-to-speech for realistic practice and feedback.
- *Skills: Python, ML, NLP, Deep Learning, Gemini API, TTS*

Alumni Registration & Directorate Management Web App

- Developed a MERN-stack platform for alumni registration, profile management, networking, and an admin dashboard for user and event management.

ACHIEVEMENTS

- **Competitive Programming:** 1st Rank in CodeChef Contest
- **Hackathons:** 1st position in Code Combat Hackathon (individual participant)
- **Certifications:** Supervised Machine Learning (Coursera), ChatGPT Prompt Engineering for Developers (DeepLearning.AI)
- **Nation Topper:** CBSE Certificate for scoring 100/100 in Mathematics, Class 10 Board Examinations