

Prateek Bansal

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EDUCATION

San Jose State University

Masters of Science in Computer Science

San Jose, California, United States

August 2025 – May 2027 (expected)

Thapar Institute of Engineering and Technology

Bachelor of Engineering in Computer Science

Patiala, India

August 2019 – June 2023

RELEVANT EXPERIENCE

American Express

India

Software Engineer 2

March 2025 - August 2025

- Drove cross-functional initiatives to enhance system reliability, including distributed tracing, fault tolerance, and proactive alerting mechanisms.
- Lead end-to-end design and development of scalable backend systems with a focus on performance, resilience, and observability.

Software Engineer 1

August 2023 - March 2025

- Engineered a backend service to monitor and track downstream API requests, built a reconciliation system to ensure data consistency.
- Spearheaded the modernization of a deletion utility tool, resulting in automation of 2 people sprints operations and elimination of human error
- Created Business Layer API Endpoints for development of Ingestion report module to increase user engagement by 30%

Software Engineer Intern

January 2023 - June 2023

- Built a Chrome extension for NiFi job operations, saving around \$700 per day in operational costs.
- Automated compliance regulatory tasks, reducing manual effort and saving 30 minutes per execution.
- Enhanced strict adherence to compliance requirements and regulatory in accordance to data deletion rules.

PROJECTS

Thunder | Project Repo

- Developed a food delivery web application with AI-powered recommendations and voice command support for campus restaurants.
- Implemented secure authentication with bcrypt password hashing and integrated Razorpay for payments.
- Designed and built a real-time order tracking dashboard for a seamless user experience.
- Skills: Node.js, MongoDB, Express.js, Tailwind CSS, AI/ML, Authentication, Payments

Facemash

- Built a face detection and recognition system capable of recognizing and swapping multiple faces in real-time.
- Implemented K-Nearest Neighbors (KNN) for recognition and utilized Haar-Cascade Classifier for detection
- Skills: Python, OpenCV, KNN, Computer Vision, Image Processing

ACHIEVEMENTS AND ACCOMPLISHMENTS

- **Google Cloud Professional Cloud Architect Certification** | [Certificate link](#)
- **3rd Prize Winner at National Level Hackathon (Codestreet 2020), organized by American Express**

TECHNICAL SKILLS

Languages & Databases :- C, C++, Java, Javascript, Python, SQL, CQL, Postgres DB, Cassandra DB, MongoDB, MySQL

Frameworks & Tools:- Spring Boot, React, Node.js, Flask, JUnit, Kafka, FastAPI, Material-UI, Git, Docker, Jenkins, Github Actions, Google Cloud Platform

Courses:- AI and ML, Cloud Computing, Data Structures and Algorithms, Object Oriented Programming