

Sushant Singh

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EDUCATION

Indian Institute of Technology Guwahati, India

Bachelor of Technology | Department rank 2

Jul 2019 - Jul 2023

CGPA: 8.43/10.0

EXPERIENCE

Deloitte - Disruption Office

Senior Backend Developer

Bengaluru, India

Jun 2024 - Mar 2026

- Architected and shipped GPMS, the organization's unified Talent platform from zero to production in 3 months, now serving **50,000+** users across **6** business units.
- Led end-to-end backend delivery for 5+ microservices (AWS, Node.js) and a **100+** column normalized database schema, consolidating legacy SAP and Salesforce sources into one platform, retiring **\$400k/year** in licensing and operations cost.
- Built ETL pipelines - modular Python classes on ECS cron via EventBridge, reconciling KPI data nightly across **10+** heterogeneous sources (on-prem DBs, REST APIs, flat files) into MySQL with zero data loss to synchronize **3M+** records.
- Shipped LLM-powered features in production: a feedback-writing assistant and a meeting-transcript based JIRA/Azure DevOps backlog generator, eliminating **500+** enterprise hours/week of manual ticket creation.
- Engineered an event-driven mass email microservice supporting dynamic templating; slashed delivery time for **40,000+** user campaigns by **83%** (60 mins to 10 mins) by architecting concurrent AWS Lambda executions with batch processing
- Hardened GPMS for quarterly feedback load (40K employees submitting reviews concurrently), cutting **p95** API latency by **80%** and ensuring **99.9% uptime** by optimizing N+1 query bottlenecks.
- Led a 4-person engineering squad to translate raw business requirements into scalable code infrastructure, bridging the gap between product strategy and technical execution. Conducted **100+** code reviews, fixed **100+** security vulnerabilities via SAST, DAST, VAPT and SCA scan reports and triaged **500+** production incident tickets.

Product Developer

Jun 2023 - Jun 2024

- Delivered a multi-tenant enterprise licensing module (React, Node/Express) for DFF, utilized by **10+** brands, designing highly normalized MySQL database schemas to guarantee cross-tenant data integrity.
- Migrated authentication from Keycloak to AWS Cognito, integrating Single Sign-On (SSO) via Azure AD and designing a comprehensive Role-Based Access Control (RBAC) system to isolate data across permissions.
- Re-indexed OpenSearch cluster and shipped major cross-functional features in the platform spanning frontend (S3, Cloudfront), backend (ECS, Lambda) and agent (Electron.JS based desktop application).
- Improved DevEx by building the team's first automated Docker-to-AWS (ECR/ECS) CI/CD pipeline via deployment scripts, cutting deployment time by **85%** (**6 hrs/week**) to unlock 3x daily release velocity.

IoT Lab - IIT Guwahati

Research Intern, Department of Computer Science, IIT Guwahati

Guwahati, India

May 2022 - Jul 2022

- Designed and implemented an Adaptive Authentication algorithm for IoT devices in a vehicular Ad-hoc network, attaining a **9% increase in simulated traffic** volume handling through hardware-level optimization.
- Built secure user verification using **Zero-Knowledge Proof protocols** with discrete logarithm-based adaptive parameters.

ACHIEVEMENTS

Move the Dot - Individual	Winner of top IC award in Deloitte Disruption Office across 50+ software engineers	2025
Move the Dot - Team	Winner of top team award in Deloitte Disruption Office across 12 teams	2025
Department Rank 2	Ranked 2nd in the 2023 batch in Department of 60+ students according to C.G.P.A.	2019-23
Competitive Exams	Top 1% in JEE Main & Advanced 2019 respectively among 1.2+ million candidates	2019

SKILLS

Languages: JavaScript, TypeScript, Python, C++*, SQL

Backend: Node.js, Express, REST, Microservices, Redis, TypeORM, LLM integration

Data: MySQL, PostgreSQL, OpenSearch / Elasticsearch, Pandas, Numpy

Cloud Infra: AWS, Docker, Kubernetes, Linux, CI/CD, Cloudflare

PROJECTS

Human Image Segmentation

Pinaki Mitra, IIT Guwahati (Guided project)

2022

GitHub

- Pioneered a human image segmentation pipeline utilizing a pre-trained DeepLabV3+ model in TensorFlow, enhancing image recognition accuracy by **8%** through refined hyperparameter tuning and data augmentation techniques.
- Utilized OpenCV for basic image pre-processing and background subtraction to prepare data for model inference.

Sustainable Portfolio Management under Climate Change

N. Selvaraju, Dept. of Mathematics, IIT Guwahati (Bachelor Thesis Project)

Aug. 2022 - Apr. 2023

- Performed **data analysis** to show inferior performance of Carbon-intensive industries via **Sharpe** and **Treynor Ratios**.
- Quantified risk impacts with help of **scenario models (WITCH)** to construct **mean-variance optimal portfolio**.

EXTRACURRICULARS

- **Literary Secretary, HMC, IIT Guwahati:** Oversaw all literature related activities in the Hostel of 400+ students, managing library transactions and training freshmen for literary events.(2021-2022)
- **Spardha, IIT Guwahati:** Represented my hostel as team captain in football tournaments across regional levels.