

Tanmay Upadhyay

Full Stack Software Engineer

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [LeetCode](#)

SUMMARY

Full Stack Software Engineer with 2+ years building enterprise applications across the stack with Java 17/21, Spring Boot, Python, Angular, and React. Currently leading the annuities team on a large-scale modernization for a US-based life insurance client: I own delivery end to end, from client calls and requirements through architecture, a team of 5 developers, and AWS deployment, modernizing both IBM IIB and webMethods integrations into Java 21 Spring Boot microservices, with 80%+ of the annuities scope delivered. Strong in REST API design, secure authentication (JWT), observability, automated testing, and CI/CD on AWS.

SKILLS

Languages: Java 17/21, Python, JavaScript, TypeScript, SQL

Backend: Spring Boot, Microservices, REST APIs, JWT Authentication, Apache Camel, IBM IIB, webMethods, Flask, Node.js

Frontend: Angular, React.js, HTML/CSS, Responsive UI

Databases & ORM: PostgreSQL, MySQL, MongoDB, SQLAlchemy

Cloud, DevOps & Observability: AWS, Docker, GitHub Actions, CI/CD, Dynatrace

Testing: JUnit, Pytest

Leadership & Practices: Team Leadership, Client Communication, Microservice Architecture, Git, Agile

EXPERIENCE

Full Stack Engineer II (Annuities Team Lead) — BDIPLUS • Nov 2025 – Present • Bangalore, India

- Lead the annuities team of 5 developers on a modernization program for a US-based life insurance client (Prudential Financial), owning delivery from requirements to production.
- Modernized both IBM IIB services and webMethods packages for annuities into Java 21 + Spring Boot 4.0.8 microservices, delivering 80%+ of them as part of a 1,200+ service legacy modernization.
- Serve as the primary technical contact for the client: run client calls, gather requirements, align on scope and timelines, and handle escalations end to end.
- Built data transformation pipelines that guarantee functional parity between legacy flows and the modernized microservices.
- Secured services with JWT and integrated Prupass, Prudential's authentication system, for enterprise sign-on.
- Instrumented services with Dynatrace for monitoring and troubleshooting, and own AWS deployment: containerized builds and release configuration across environments.

Software Engineer — Integrichain • Aug 2024 – Oct 2025 • Pune, India

- Built and deployed full-stack applications (Angular + Flask), cutting page load time by 30% through component-level optimization and lazy loading.
- Designed modular PostgreSQL schemas with SQLAlchemy ORM supporting 5+ application modules.
- Automated the QA pipeline with Pytest (60% less manual testing, 40% fewer production defects) and set up CI/CD with GitHub Actions + Docker for zero-downtime AWS deployments.

Full Stack Engineer (Contract) — TalentServe • Mar 2024 – Aug 2024 • Mumbai, India

- Shipped 3 core product features on the MERN stack in a 5-month contract; built a reusable React component library (25% less frontend dev time) and CI/CD scripts that cut deploy time from 45 to 12 minutes.

PROJECTS

File Upload Microservice — Node.js, PostgreSQL, BullMQ, Redis, JWT • [GitHub](#)

- Built a secure file upload service with JWT-protected endpoints, file type and size validation, and PostgreSQL metadata storage; queued uploads through BullMQ (Redis) for asynchronous worker processing.

Secure Auth System — Node.js, JWT, bcrypt • [GitHub](#)

- Built user registration and login with bcrypt password hashing, JWT sessions with enforced expiry, and role-based access control (admin/user) applied at middleware level.

Human Activity Recognition (HAR) — Python, TensorFlow, NumPy, Scikit-learn

- Built an LSTM-based RNN classifying 6 human activities from smartphone accelerometer and gyroscope data, reaching 91% accuracy with minimal preprocessing.

INTERNSHIPS

- **Astrogen Pvt. Ltd. — SDE Intern (2024):** Optimized MongoDB queries for 40% faster data retrieval; built API-level transformation pipelines processing 1,000+ healthcare records daily with full integrity validation.
- **LaserPay — SDE Intern (2023):** Built backend logic for QR-based financial transaction processing handling 200+ daily scans at 99.9% data accuracy (Java, Firebase).

EDUCATION

B.Tech, Electronics & Communication Engineering — BIT Mesra, Ranchi • 2020 – 2024 • CGPA: 8.20 / 10

ACHIEVEMENTS

- Winner, Google Cloud Challenge (completed in one week) • Gold Badge (Java), HackerRank