Ankush Yadav

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TECHNICAL SKILLS

Programming Languages: Python, Java, C++, JavaScript, SQL
Frontend Technologies: HTML5, CSS3, Bootstrap, React.js, Tailwind CSS, TypeScript
Backend Technologies: Flask, FastAPI, Spring Boot, REST APIs, Node.js
DevOps & Cloud: Docker, Kubernetes, Git, GitHub, Microsoft Azure, AWS
Database Technologies: MySQL, MongoDB, PostgreSQL
Core CS Concepts: Data Structures & Algorithms, System Design, OOP, DBMS, Operating Systems, Computer Networks

WORK EXPERIENCE

Associate Software Engineer (Intern) | Mphasis Ltd, Bengaluru, Karnataka *Feb 2026 – Apr 2026*

- Delivered 12+ RESTful API endpoints using Java, Spring, and Spring Boot, as measured by sub-200ms latency under concurrent user requests, by building Spring Boot controller and service layers with clear separation of concerns.
- Reduced database response times by 20% across 15+ relational tables, as measured by query response benchmarks, by tuning Hibernate ORM mappings and optimizing MySQL queries, with changes managed via Git and Maven.
- Improved page-load speed by 25% across 10+ responsive frontend modules, as measured by load-time comparison, by building them in HTML5, CSS3, Bootstrap, and TypeScript, also improving cross-browser compatibility.

Software Engineer (Data & Pipelines - Intern) | Evoastra Ventures Pvt Ltd, Remote *Jul 2025 – Aug 2025*

- Automated daily ingestion workflows by architecting a high-throughput data extraction pipeline using BeautifulSoup and Selenium, structuring 50,000+ dynamic data points and cutting weekly manual research by 15+ hours.
- Engineered a high-performance Flask microservice to host production-ready deep learning inference pipelines, ensuring high-availability deployment across a distributed testing environment.
- Accelerated API inference velocity by 30% and improved output reliability by 15%, as measured by processing latency benchmarks, through hyperparameter tuning, custom tokenization design, and optimized feature extraction scripts.

PROJECTS

Relay – Offline-First Payment Network Simulator | *Java 17, Spring Boot, JavaScript, H2, IndexedDB, AES-GCM, RSA-OAEP* Live Demo

- Built an offline-first, UPI-style payment network that stays usable without connectivity, as measured by queued transactions persisting across sessions and syncing on reconnect, by implementing a browser-side request queue on IndexedDB with a localStorage fallback.
- Prevented double-spending and replay attacks during offline-to-online sync, as measured by duplicate or stale packets being rejected at ingestion, by implementing idempotency keys and timestamp-based freshness checks at bridge ingestion.
- Secured payment packets across a virtual forwarding mesh, as measured by end-to-end confidentiality and integrity of every packet, by implementing hybrid encryption (AES-GCM for payloads, RSA-OAEP for key exchange).
- Guaranteed ledger consistency under out-of-order and concurrent arrivals, as measured by balance validation on every transfer, by implementing transactional updates in a simulated ledger.

Interactive Developer Portfolio | *Next.js, TypeScript, Three.js, AWS Amplify* Live Link

- Built an interactive portfolio with an animated 3D robot, project showcases, research summaries, and downloadable résumés.
- Configured automatic builds and deployments on AWS Amplify through GitHub integration.
- Diagnosed and resolved React and 3D renderer compatibility issues, restoring interactive animations in production.

EDUCATION

Presidency University Bengaluru, Karnataka
Bachelor of Technology (Computer Science and Engineering), CGPA: 7.7/10 *Dec 2022 – Nov 2026*

Kendriya Vidyalaya AFS Yelahanka Bengaluru, Karnataka
CBSE Class XII, Stream: Computer Science, CGPA: 8.19/10 *Apr 2021 – Jul 2022*

CERTIFICATIONS

AWS Certified Cloud Practitioner: Amazon Web Services (AWS)
Microsoft Azure Essentials Professional Certificate: Microsoft
Career Essentials in Software Development: Microsoft
Networking Basics: Cisco

ACHIEVEMENTS

- **CICADA 2023 Hackathon, Core Developer/Team Lead**: Led a team of 4 through a 24-hour sprint to deliver a software solution hosted by Atria Institute of Technology. *Dec 2023*
- **Problem Solver (Silver Badge)**: Solved 270+ Data Structures & Algorithms problems across Java and Python on CodeChef.
- **Data Structures & Algorithms**: Practicing advanced data structures, algorithms, and competitive programming on LeetCode.
- Selected in the **top 70 teams out of 450** in the World's Largest Innovation Expo, featuring over 2,600 students, at Presidency University. *May 2023*