

# ANSHUL THAKUR

Software Developer | Python | Full Stack

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

## TECHNICAL SKILLS

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

**Frontend:** React.js, Redux, HTML5, CSS3, Tailwind CSS

**Backend:** FastAPI, REST APIs

**Mobile:** React Native, Expo

**Database:** PostgreSQL, SQLAlchemy

**Data Engineering:** PySpark, Pandas, Databricks, ETL, Batch Processing

**Cloud & Tools:** Git, GitHub, Postman, AWS S3, AWS Lambda, API Gateway, Vercel, Render

**Engineering Concepts:** API Design, Authentication, Database Optimization, Cloud Deployment, Debugging

## EXPERIENCE

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**Software Developer Intern** | RSquareSoft Technologies | *July 2025 – Present*

- Built responsive admin dashboards using React, TypeScript, and Redux, improving frontend usability and performance across core application modules.
- Designed and integrated scalable FastAPI REST APIs, optimizing backend communication and request handling for high-traffic workflows.
- Implemented end-to-end authentication using JWT, refresh tokens, secure cookies, and session management for protected user access flows.
- Diagnosed and resolved critical production issues in routing, login flows, and database constraints, improving platform stability.
- Optimized PostgreSQL schemas and queries with SQLAlchemy, reducing database load and improving response times for high-traffic modules.
- Engineered AWS S3 upload pipelines and built chunk-based dataset generation tools for scalable model training and analytics workflows.

## PROJECTS

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**Server Diagnostics Platform** | React.js, FastAPI, Vercel, Render | [Live Demo](#)

- Designed** and developed a scalable full-stack network diagnostics platform supporting real-time metrics such as latency, jitter, and throughput, with interactive visualization dashboards.
- Developed** optimized FastAPI endpoints for high-frequency requests and interactive dashboards for live and historical performance visualization.
- Deployed** on Vercel and Render with a modular architecture that supports scalable addition of new diagnostic services.

**Resume Data Generation System** | Python, PySpark, Pandas, Databricks, ETL

- Designed** end-to-end ETL pipelines using PySpark and Pandas to generate thousands of structured synthetic resume datasets for ML model training.
- Implemented** configurable templates and rule-based logic to simulate realistic candidate profiles across diverse roles and experience distributions.
- Automated** batch processing and dataset export workflows, significantly reducing manual data preparation time and accelerating model evaluation cycles.

**Cross-Platform Recipe Application** | React Native, Expo, Clerk Auth, REST APIs, Render | [GitHub](#)

- Developed** a cross-platform recipe app using React Native and Expo targeting Android and iOS from a single codebase.
- Integrated** REST APIs for real-time recipe data, categories, and ingredients; implemented Clerk Auth for secure user authentication.
- Configured** Render deployment with scheduled cron jobs for automated background tasks and continuous delivery workflows.

## EDUCATION

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**B.E. in Computer Science** | Chitkara University, Himachal Pradesh | *August 2022 – June 2026*

CGPA: 8.5 / 10.0