Ananya Gulati

PRINCIPAL SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Results-driven **Principal Software Engineer** with 6+ years of expertise designing high-performance backend systems and modular low-code Angular architectures. **AI-First software engineer** actively orchestrating autonomous developer agents and LLM scripts to accelerate feature design, framework migrations (Angular 8 to 20), logging audits, and system diagnostics. Proven record of scaling ingestion architectures and delivering configurable enterprise plugins across 20+ teams.

PROFESSIONAL EXPERIENCE

GEP Worldwide — *Principal Software Engineer* **January 2026 – Present**

- Lead technical schema creation and execution design for complex, configurable enterprise application modules, boosting framework reusability.
- Orchestrated **Agentic AI-assisted framework migration from Angular 8 to Angular 20** across enterprise plugins, modernizing frontend architectures.
- Integrate agentic AI developer workflows into daily sprint routines, boosting debugging iterations and custom scripting velocity by **35%**.
- Design and deploy a unified local dev environment integrating distributed repos & build configs, accelerating feature delivery speed by **50%+**.

GEP Worldwide — *Senior Software Engineer* **July 2022 – December 2025**

- Architected and scaled **5+ core microservices** handling client transactions, driving end-to-end API definitions and legacy refactoring.
- Built a super-configurable **Card Host Manager Angular plugin** (supporting card scrolling, wrapping, & dynamic card injection) adopted by **20+ teams**.
- Engineered interdependent Angular plugins with cross-plugin event messaging & **AG Grid** integration; diagnosed and resolved critical app memory leaks.
- Improved inbound request processing speed by **10x** through staging logic optimizations and adoption of bulk processing design patterns.
- Developed Azure Databricks native ETL pipeline processing **150M+ raw time-series data points** from CSV files into MongoDB.
- Orchestrated large-scale data migration of **3M+ records** in MongoDB via Python on Databricks with **100% data integrity**.
- Coordinated cross-functional teams to resolve **30+ critical/blocker production incidents** with minimal business disruption.

GEP Worldwide — *Software Engineer* **July 2020 – July 2022**

- Engineered dynamic database-driven HTTP execution services, reducing dev turnaround time by **30%** and boosting core configurability by **20%**.
- Developed reusable, responsive **Angular plugins tailored for low-code platform architectures**, ensuring high UI reusability across enterprise modules.
- Designed modular object validation engines, cross-app notification frameworks, and reusable workflow plugins, saving **15+ hours weekly**.

Illinois Institute of Technology — *Research Intern (Chicago, USA)* **May 2019 – July 2019**

- Cleaned and mapped gigabytes of tabular genetic dataset using Python (Pandas & NumPy) to identify candidate chemical compounds for Alzheimer's therapeutics.
- Designed statistical regression models to evaluate chemical compound efficacy, significantly reducing compound shortlisting time.

TECHNICAL SKILLS

Languages:	C# / .NET, TypeScript, JavaScript, Python, C++, Java, SQL, HTML5 / CSS3
Frontend & Frameworks:	Angular (v8–v20), AG Grid, Low-Code Plugin Architectures, Micro-Frontends, React Native
Backend & Systems:	.NET Core, Node.js, Express, Microservices, RESTful APIs, Camunda, OOP Design
Databases & Tools:	MongoDB, Elasticsearch, Azure, Azure Databricks, SQL Server, Git / GitHub, MySQL
Methodologies:	Architecture Design, Performance Optimization, Memory Leak Debugging, Agile/Scrum, Code Review

EDUCATION

Birla Institute of Technology, Mesra — *Bachelor of Engineering in Information Technology* (CGPA: **7.78 / 10.00**) **2016 – 2020**

SELECTED PROJECTS

Time Series Forecasting Application

- Developed and scaled a super-configurable forecasting engine for buyer-supplier stock movements, implementing core components for large time-series datasets.

Quality Management & Low-Code Angular Platform

- Designed an enterprise low-code evaluation system enabling modular supplier-level quality evaluations and plugin card managers, reducing buyer review overhead.

HONORS & AWARDS

- **GEP Achiever Award:** Awarded for core values, initiative, and exceptional impact (Q2 2026).
- **GEP Catalyst Award:** Critical POC using new tech in record time (Q3 2025).
- **GEP SPOT Recognition:** Awarded for ownership & platform delivery (2021).
- **GEP Change Agent:** Awarded for driving architecture optimizations (2020).
- **Smart India Hackathon Finalist:** National team finalist in software (2019).
- **National Talent Search Scholar (NCERT):** Govt. of India scholarship (2014).