

ARYA VEER SINGH CHAUHAN

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EDUCATION

Birla Institute of Technology and Science, Pilani

B.E. Computer Science Engineering; GPA: 8.64/10

Pilani, India

2020 - 2024

SKILLS

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL, NASM

Technologies: Django, Django Rest framework, React.js, Redux, Next.js, Tailwind, Bootstrap, MySQL, PostgreSQL, Sanic, Tortoise, Spring Boot, Postman, Compiler construction, Server Configuration, Socket Programming, Git, Asyncio, SVN, Docker, AWS, Kubernetes, GCP, SQS/Kafka, RabbitMQ, MongoDB, JWT, OAuth 2.0,

Methodologies: Agile, Scrum, OOP, Functional Programming, Microservices, API Testing automation, Design Patterns

EXPERIENCE

Tata 1MG

Software Development Engineer- I

Gurugram, India

July 2024- May 2025

- **Architected** a modular **template engine** that injects data into configurable templates containing static values reducing hard-coded logic by 90%. Used low-level design patterns like **Abstract Factory, Strategy, Context and Composite**.
- Developed a flexible **rule engine** that interprets and executes JSON-based rules at runtime, enabling modification of business logic without code changes. **Automated insurance decision** covering 250+ configurable rules using rule engine.
- Implemented cashless e-consults for corporate users covering 50 different cases. Wrote **modular code** for better extensibility.
- Optimized various APIs **reducing latency upto 58%** using asynchronous tasks, database and query optimizations and caching.

BITS Pilani Library

Software Developer, Part Time

Pilani, India

August 2023- May 2024

- Digitalized the heritage gallery of BITS having 1000+ media files developing **heritage website** using **React.js** and **MongoDB**.
- Designed and Programmed the **library website** of BITS utilizing **Next.js** for server-side rendering and caching to minimize API hits by 70%. Leveraged **Django** and its **ORM** for streamlined fast paced development.
- Conceptualized a framework using to upload data **asynchronously** reducing API latency by 85%

Standard Chartered GBS

SDE Intern

Bengaluru, India

May, 2023 - July, 2023

- Engineered a proof-of-concept software with **React.js** and **Spring Boot**, reducing manual work by 2 hours in account opening.
- Streamlined API testing with Postman, automated using Newman and Python subprocesses, **reducing QA effort by 2 hours**.

PROJECTS

Studydeck

July 2023 - October 2024

- Engineered the backend using **Django** for a platform-independent software used by more than 80% BITS students for academics.
- Devised a **BFS** and **multithreading** based algorithm to parse google drive and store 800 GB of study resources in **S3 bucket**.
- Consolidated a **CDN** on campus LAN to decrease approx. **70% cost** and also provided a resource-sharing feature to students.

ERPLAG Compiler

Feb 2023 - May 2023

- Built a custom compiler with 30 keywords, 120 grammar rules in **C** using simple data structures.
- Implemented the backend of compiler with Abstract Syntax Tree reducing memory efficiency by 70% for semantic analysis.
- Established a three-address code to generate **NASM** code for 12 semantic runtime checks and further execution of code.

Project Onetap

September 2021 - March 2022

- Formulated an expense system, allowing 8000+ users to order food, book cabs and shows, order merchandise on a single tap.
- Handled over **1000 requests per second** by following best practices for backend and databases like caching and indexing.
- Architected a **authentication** system based on **JWT** with an encrypted QR-based wallet facilitating transactions over Rs. 10 cr. p.a.

ACHIEVEMENTS

Secured global rank of **229** in leetcode weekly contest 437.

Received **Knight badge** on LeetCode for consistently ranking in the top 3% of competitive programmers.

Topped class in Object Oriented Programming Course at BITS Pilani among 350 students

Scored 391/450 in **BITSAT** with **AIR 4741** in JEE Advanced.