

ANUBHAV DHULIYA

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EDUCATION

Shiv Nadar University, Delhi-NCR July 2016 – July 2020
Bachelor of Technology, Computer Science and Engineering CGPA : 7.72/10

Mount Carmel School, New Delhi 2016
Higher Secondary Examination, CBSE 91%

EXPERIENCE

UnitedHealth Group (Optum) February 2023 - Present
Senior Software Engineer *New Delhi*

Software Engineer August 2020 - February 2023
New Delhi

- **Claims Real-time Ingestion Pipeline** | *Spring Boot, Apache Kafka, GraphQL, Kubernetes, GCP, PostgreSQL*
Spearheaded the design and development of a medical claims ingestion pipeline based on event streaming. The project remediated the existing business logic from batch processing to Real-Time processing. The pipeline processes over 1 million medical claims daily, and handles more than 200 million messages at its peak.

Responsibilities

- Leading a team of 5+ developers and ensuring industry standards are followed. The system presently comprises of 40+ microservices.
- Analysis of existing legacy applications to redesign them for real-time processing. Analyzed and redesigned more than 130 batch processes.
- To ensure high performance and scalability for the entire pipeline – increased the performance by 1000% since the inception of the pipeline by effective resource usage and query optimization.
- Leading core services production releases single-handedly and supervising other production releases.
- **Eureka - Claims Real-time Dashboard** | *Angular, Kubernetes, Javascript, HTML/CSS*
Designed and led the development of an Angular-based dashboard that allows more than 100 concurrent users to track the real-time status of millions of medical claims, ability to fix claims, and several other features.
- **Legacy Application Migrations** | *Spring Boot, Apache Kafka, Apache Airflow, Python, Azure, PostgreSQL*
Modernized existing legacy applications based in .NET, Mainframe, DataStage, and Oracle. Acted as the primary developer on numerous migrations to several modern frameworks/tools such as Spring Boot and Kafka delivering much higher-performing, scalable applications.

Troopr.ai | *ReactJs, Redux, Javascript* July 2020 – August 2020
Software Intern *New Delhi*

- Worked as a hands-on front-end developer on Troopr, a tool that automates issue tracking over Slack.
- Used the Slack API, ReactJs, and Redux to develop Troopr dashboard features which integrated custom UI components with Slack alerts and messages. Also worked on production defect resolution.

FloBiz | *Ruby on Rails, Angular, PostgreSQL, Ruby, Python, Typescript* January 2020 – June 2020
Software Intern *New Delhi*

- Worked as a full-stack developer on FloBook (now myBillBook). Closely worked with the Product management and Sales teams to build features for 4+ million SMEs.
- Developed a PDF generation module using Ruby on Rails, meant to be used across multiple applications to create dynamic PDFs for customer invoices.
- Created a notification module that integrated any analytics engine, CRM, and Alert service to help with customer engagement and faster issue resolutions by sending webhook-based notifications to the team according to the user event.

- Worked at the Defence Terrain Research Laboratory.
- Image-to-Image translation - Implemented a Super-Resolution Generative Adversarial Network (SRGAN) using TensorFlow, to address the problem of super-resolving and refining jointly, to enhance small faces (10x10 pixels) in crowded photos.
- The model also introduced new training losses to guide the generator network to recover fine details and to promote the discriminator network to distinguish real vs. fake and face vs. non-face simultaneously.

PROJECTS

Untitled Collective

July 2020 – Present

A tech-based creative collective where our goal is to create immersive and interactive web experiences leveraging the latest technologies.

- Layermint - An image generation and NFT-minting tool. It uses your layer assets to create your own NFT collection. Users can deploy it to a blockchain of their choice. Front-end was made over ReactJs and the backed was developed using NodeJs and AWS. Firebase was used for authentication and authorization.

Channel | *Flutter, Flask, Google Cloud Platform, MongoDB*

October 2019 – November 2019

Channel is a blogging platform where a writer has the full autonomy and creative freedom of their content and it employs a reputation system to promote quality content. Flutter was used to create the front-end application. The backend microservice was built using flask.

Postcard | *React Native, Go, Google Cloud Platform, RethinkDB*

February 2019 - May 2019

A Social Media app for travelers, based on Android and iOS. React native was used for facilitating cross-platform builds. A secure microservice-based backend was made using Go and RethinkDB.

TECHNICAL SKILLS

Languages	Java, Python, C++, JavaScript, TypeScript, Ruby, Shell/Bash Scripts, C#, SQL
Back-End Technologies/Frameworks	Spring Boot, Apache Kafka, NodeJS, Ruby on Rails, .NET, Apache Airflow
Front-End Technologies/Frameworks	Angular, React.js, Flutter, Next.js, .NET
Cloud/Developer Tools	Git, Docker, Kubernetes, AWS, Google Cloud Platform, Azure, Jenkins, Splunk

LEADERSHIP / EXTRA-CURRICULAR ACTIVITIES

- Breeze '19 | *Video Head* - Created and curated video content for the Annual Fest of Shiv Nadar University.
- Irtiq | *Team Head* - Led Chaplins, in the cultural intra-fest, Irtiq organized by the Dramatics Society of SNU.
- India Film Project | *Team Lead* - A nationwide competition where my team created and submitted a movie made from scratch in under 50 hours.
- Imprints, the Dramatics Society of SNU | *Senior Member* - Directed, wrote for, and acted in plays and movies.
- CineU, Film Appreciation Society of SNU | *Member* - Curated and screened movies for college audiences. Held film analysis discussions.
- School Prefect | *House Captain* - Led my house to win the Best House and, the Most Disciplined House awards.

ACHIEVEMENTS

- High Flyer Award May 2022 | *Optum* - Recognized for outstanding contribution to the Claims domain.
- Sapphire Award December 2021 | *Optum* - Recognized for excellent performance.
- Emerald Award December 2021 | *Optum* - Recognized for constant collaborations across teams.
- Amethyst Award July 2021 | *Optum* - Recognized by upper management for adopting and excelling in latest technologies
- Best Writer 2019 | *Shiv Nadar University* - Awarded with Best Writer for Film in Irtiq '19