

Divyansh Agarwal

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EDUCATION

Guru Gobind Singh Indraprastha University

BACHELOR OF TECHNOLOGY
COMPUTER SCIENCE AND ENGINEERING
Aug 2017 - Aug 2021 | Delhi, India
CGPA | 9.1 out of 10.0

CERTIFICATIONS

AWS CERTIFIED DEVELOPER - ASSOCIATE |  | APRIL 2024 - APRIL 2027

PUBLICATIONS/BLOGS

HOW TO MANAGE LOGIN ACTIVITY USING JWT IN NODEJS | 

HOW TO MAKE A SCALABLE OTP SERVICE USING NODEJS | 

SKILLS

PROGRAMMING

LANGUAGES:

• Golang • Python • JavaScript • Java • SQL

TECHNOLOGIES:

• AWS • Spark • Node.js • React • PySpark
• Redshift • Snowflake • Django • GraphQL
• Flask • FastAPI • Redis

DOMAINS:

• ETL • Backend Development • API
• Data Engineering • Data Warehousing
• WebRTC • Data Modeling • Microservices

TOOLS:

• Git • Docker • Airflow • CI/CD
• Glue • EMR • S3 • Lambda • Kinesis

ACHIEVEMENTS

FINALIST IN SMART INDIA HACKATHON | BANGALORE, INDIA
March 2019

SOCIAL ACTIVITIES

HEAD OF WEB DEVELOPMENT |
GOOGLE DEVELOPERS GROUP - DSC
BVP | 2019-2020

Coordinated and mentored a team of developers to design and implement an event management website, improving member engagement, reducing registration time by **90%**, and increasing event registrations by **30%**.

SWACHH BHARAT INTERNSHIP |
GOVT. OF INDIA | 2019

Dedicated **100 hours** to cleaning nearby villages and raising awareness about cleanliness under the Swachh Bharat Mission.

EXPERIENCE

TATA CONSULTANCY SERVICES

SOFTWARE ENGINEER

August 2024 – Present

 New Delhi, India

- **Designed and optimized scalable backend systems for generative AI** models using **FastAPI**, focusing on high performance and seamless AI service integration.
- **Reduced model inference latency by 20%** by implementing **Redis caching** and optimizing request-handling mechanisms in a **cloud-native environment (Azure)**.
- **Developed RESTful APIs using FastAPI** for real-time interactions, handling up to **500,000 API requests daily**, ensuring secure and efficient communication between AI models and end-users.
- **Collaborated with cross-functional teams** to design prompt scoring criteria, using **few-shot prompting** that improved conversation **accuracy by 30%**.

DATA ENGINEER

August 2021 – August 2024

 New Delhi, India

- **Led a cloud-based data engineering project**, managing over **100 million** daily transactions in a **petabyte-sized** data warehouse for a major energy client.
- **Conducted thorough evaluations of data processing workflows** to identify bottlenecks and inefficiencies, implementing targeted optimizations that reduced processing time by **50%** and earned an award for outstanding project contributions.
- **Integrated automated regression testing**, increasing test coverage by **30%** and boosting customer satisfaction by **60%** on data quality and accessibility.
- **Built and maintained a highly scalable and reliable data infrastructure** using **SQL, Matillion, AWS, Redshift, Python, Spark, and Snowflake**, achieving a **99.9%** uptime.
- **Architected and implemented 10+ data pipelines** that supported business decision-making and increased revenue collection for clients.
- **Collaborated closely with cross-functional teams on 5+ major projects** to understand data needs, troubleshoot issues, and deliver high-quality solutions.

EWENTLY

CO-FOUNDER AND LEAD OF TECHNICAL DEVELOPMENT

March 2020 – July 2022

 New Delhi, India

- **Co-founded and led the development of Ewently**, shaped the technical vision, and guided a team of 5 engineers in developing an online event-hosting platform.
- **Architected and optimized backend services**, achieving a 30% reduction in latency, which enhanced platform performance and user satisfaction by 40%.
- **Designed and implemented a scalable event ticketing system** with **Node.js, GraphQL, and AWS**, ensuring 99.9% uptime and supporting up to 5K concurrent users.
- **Developed a secure OTP service integral to the 2FA system**, which decreased unauthorized access by 20% and bolstered platform security.
- **Engineered a robust video meeting system** utilizing **Python, Golang, WebRTC, RTP, and RTMP**, enabling seamless hosting of over 1 million video meetings and live streams monthly with advanced collaboration tools.

PROJECTS

BANK APP |

- Built a bank application using **Golang** to simulate bank operations, like account creation, user management, and transaction handling, capable of supporting over **1,000** simulated daily transactions.
- Enhancing the API with additional features like payment gateway integration, loan management, and interest credit functionalities.

SCALABLE OTP MICROSERVICE USING NODEJS |

- Programmed a **Node.js** API that employs an **encryption**-based method to eliminate the need to store OTPs with personal identifiers, reducing the risk of data breaches by **40%**.
- Created an encrypted object transmission system for OTP requests using **AWS SNS**, which is decrypted and verified during the verification process, which increased user trust and adoption by **70%**.