

Divyansh Agarwal

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EDUCATION

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING

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

SOFT SKILLS

• Leadership • Problem-solving • Creativity
• Critical thinking

ACHIEVEMENTS

FINALIST IN SMART INDIA

HACKATHON | BANGALORE, INDIA
March 2019

SOCIAL ACTIVITIES

HEAD OF WEB DEVELOPMENT |

GOOGLE DEVELOPERS GROUP - DSC
BVP | 2019-2020

Led the web development team, enhancing society engagement by creating and maintaining a website for event and member management. This reduced registration time by 90% and increased 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 - AI BACKEND

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%** through 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 per day**, ensuring secure and efficient communication between AI models and end-users.
- **Collaborated with cross-functional teams** to design prompt scoring criteria, using **Python** and improving 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.
- **Reduced daily production run time by over 60% through SQL query optimization**. This significantly decreased the total pipeline runtime 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**, shaping the technical vision and guiding a team of 5 engineers to deliver a cutting-edge event hosting platform.
- **Architected and optimized backend services**, achieving a 30% reduction in latency, which significantly enhanced platform performance and user satisfaction.
- **Designed and implemented a scalable backend infrastructure with Node.js, GraphQL, AWS, and WebRTC**, ensuring 99.9% uptime and supporting up to 1 million concurrent users.
- **Developed a secure OTP service integral to the 2FA system**, resulting in a 20% decrease in unauthorized access and bolstering platform security.
- **Engineered a robust video meeting system utilizing WebRTC and RTMP**, enabling seamless hosting of over 1 million video meetings monthly with advanced collaboration tools.

PROJECTS

MOCK BANK |

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

SCALABLE OTP MICROSERVICE USING NODEJS |

- Programmed an API that employs a unique encryption-based method to eliminate the need to store OTPs with personal identifiers, significantly reducing the risk of data breaches.
- Created an encrypted object transmission system for OTP requests, which is decrypted and verified during the verification process, resulting in a **70%** increase in user trust and adoption.
- Utilized **Node.js, Encryption, Decryption, and AWS**, improving security measures.