

# Abhishek Udiya

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## Education

National Institute of Technology Karnataka.	08/2021 - 07/2024
Masters of Computer Applications	
University of Delhi.	08/2018 - 07/2021
Bachelors of Science in Electronics (Hons.)	

## Work Experience

Videonetech   Senior Engineer	08/2024 - Present
Contributed to a distributed image-processing system in Python with <b>gRPC</b> ; optimized high response latency by applying <b>multithreading for I/O-bound tasks</b> , reducing latency by <b>40%</b> .	
Developed a <b>Redis-based job-tracking module</b> , enabling real-time task progress monitoring and improving throughput under high concurrency.	
Implemented <b>FastAPI</b> backend services to expose forensic functionality, ensuring modularity and seamless integration with the distributed system.	
Worked with <b>PostgreSQL</b> for managing <b>image-processing metadata</b> and optimized queries to handle high-volume transactional workloads.	
Applied design principles such as <b>Dependency Injection</b> , <b>Singleton</b> etc to improve scalability, maintainability, and overall system architecture.	
Collaborated with ML engineers to develop microservice for a <b>heatmap generation pipeline</b> as part of the distributed system for the company's product <b>Soterix</b> , targeting the US market.	
Contributed in deploying the <b>heatmap service to AWS ECS</b> using <b>Docker</b> , integrated <b>S3</b> for data storage, and contributed to infrastructure setup with <b>Terraform</b> ( <b>private subnets</b> , <b>NAT gateways</b> , and <b>IAM policies</b> ).	

Karbon Business   Software Engineer - Intern	02/2024 - 08/2024
Developed a <b>Django-based microservice</b> to generate <b>Business Resolution (BR) documents</b> , seamlessly handling complex features and edge cases using the <b>WeasyPrint</b> library.	
Designed an <b>automated data pipeline</b> to streamline <b>database migrations and data dumping</b> , improving <b>efficiency</b> and ensuring <b>data integrity</b> .	
Built and exposed <b>REST APIs</b> delivering insights on top merchants and sectors, with <b>Redis caching</b> to reduce response time and improve <b>system performance under load</b> .	

## Projects

Almabase - Connecting Alumni with Students   HTML, CSS, JavaScript, Python, Django   GitHub	05/2023
A web application aimed at helping over 6000 students annually enhance their career opportunities through insights and resources shared by alumni.	
Developing onboarding capabilities to support over 2000 new students yearly, providing access to job postings, interview experiences, academic content, and comprehensive alumni information, empowering students' career journeys.	
Integrated email notification feature to improve user engagement with timely job posting notifications.	
Implemented Google authentication for seamless sign-in and enhanced account security.	

## Technical Skills

**Languages:** Python, JavaScript, Java Core, SQL

**Skills:** HTML, CSS, Django, Fastapi, Postgres, MongoDB, Node.js, React(Basic), Redis, Data Structure and Algorithms,

**Cloud:** Docker, EC2, S3, RDS, VPC, ECS, CloudWatch, IAM, API Gateway, Terraform, Celery.

**Core Subject:** Operating System, Computer Network, Object-Oriented Programming (OOP), DBMS,

## CERTIFICATIONS & ACHIEVEMENT

### Problem Solving

NIMCET RANK AIR : 128 • Leetcode 500+ Problems (<https://leetcode.com/abhish0908/>)

### Co-Curricular Activity

SPIE Student Chapter	09/2019 - 10/2019
Organizer & Member of SPIE Events	University of Delhi
Led the planning and execution of a large-scale project exhibition for the SPIE Society of Optics and Photonics, showcasing 20+ projects and attracting 200+ attendees with positive feedback.	
Managed coordination, logistics, and team communication, ensuring the successful organization of the event within a 1-month deadline.	