

Sarthak Chowdhary

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EXPERIENCE

Full Stack Developer

Sept 2024 – Present

Saayam For All

US, (Remote)

- Designed a scalable, AI-assisted reporting platform with **Python, FastAPI, Airflow, PostgreSQL, and AWS S3**, adding a **GPT-4** summarizer that turns raw metrics into plain-English insights and cuts manual analysis time by **40 percent**.
- Engineered and deployed cloud-native microservices for data collection, request handling, and generative AI using **Java Spring Boot and Python on AWS Lambda**; integrated **Amazon Cognito** for authentication, authorization and reducing operational costs.

Software Engineer

July 2020 – Aug 2022

Optum, United Health Group

- Built a cloud-hosted, internal SaaS-style observability dashboard integrated with **ServiceNow and Kanban**, used by multiple teams to monitor **700+ enterprise applications** at Optum. Leveraged **Angular, Spring Boot, MongoDB, GCP, Kubernetes, and Docker** to enable full-stack CI/CD and **reduce system downtime by 15%**.
- Engineered data pipeline utilizing **Kafka** to seamlessly integrate and transfer data between two **data warehouses**, enhancing data flow efficiency and reliability.
- Reduced data redundancy by **10%** across 2 data warehouses by developing an **ETL job parser** using Python to parse a list of DataStage jobs and provide the source to destination transformations of the Database fields.
- Developed a **Python framework** to clean and extract cost of operations data from **50+ applications**, storing data in MongoDB and using **Metabase Business Intelligence tool** for data visualization, enhancing data-driven decision-making.
- Developed robust **ETL Jobs using IBM DataStage, SQL, IBM Db2, and Unix Shell scripting**, and optimized **scheduling with Airflow DAGs using Python**, improving data reliability and cutting pipeline latency by 15%.
- Managed operations of **500+ ETL Jobs** as part of the **Sprint based DevOps** model during **on-call** activities.

Web Developer

May 2019 – June 2020

beepweep.com

- Built a loan lending web app with **React and Spring Boot, REST APIs** for loan applications, approvals, and payments.
- Implemented **authentication and authorization using Okta**, ensuring secure access control for different user roles(borrowers, lenders, and administrators).

TECHNICAL SKILLS

Languages: Java, Python, Go, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, R

Frameworks: Angular, React, Spring Boot, Kafka, REST API, Flask, FastAPI

Developer Tools: Apache Airflow, Git, Docker, Kubernetes, MongoDB, Google Cloud Platform, Azure, AWS

Libraries: pandas, PyTorch, TensorFlow, OpenCV, NumPy, Matplotlib, JSON

EDUCATION

New York University, Tandon School of Engineering

Brooklyn, NY

Master's in Computer Engineering (3.87 GPA)

Vellore Institute of Technology

Vellore, India

Bachelor of Technology in Information Technology

PUBLICATION

Image Compression and Reconstruction Using Encoder-Decoder Convolutional Neural Network

[View Publication](#)

PROJECTS

Subwave | *React Native, TypeScript, Google Cloud Speech-to-Text* | [Github](#)

- Subwave is a mobile app that transcribes subway announcements in real-time, ensuring you catch every update even in noisy or hard-to-hear environments.

Success prediction of any new application | *Python, sklearn, matplotlib* | [Github](#)

- Performed in-depth data analysis with Matplotlib, discovering pivotal column correlations.
- Deployed XGBoost and LightGBM models to predict the chance of application being successful.

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900) | [View Certification](#)

AWARDS

Special Achievers Award | *VIT, Vellore*

- Received Special Achievers award by VIT for participating in the European rover challenge in Poland.

Winner of Hackbattle'19 | *IEEE-CS, VIT*

- Won first place in Hackbattle'19 for Armaments tracking system using blockchain.

Winner of Devfest'18 - Biggest College Hackathon | *DSC, VIT*

- Devfest is the biggest college hackathon held at VIT. Won the first position in the competition for blockchain-based web app for disaster management.