

AYUSH VERMA

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EXPERIENCE

Flowace – Remote

Software Development Engineer 1

April 2023 - Present

- Developed and optimised a high-performance **Content Delivery Network (CDN)** on **AWS**, leveraging **CloudFront**, **Lambda@Edge**, and **Python**. Achieved a throughput of over 10,000 images per second, concurrently reducing content delivery costs by 96%.
- Architected an efficient **Python** multithreaded script to migrate 100+ **AWS RDS** databases, each containing 120+ tables, to lower provisioned instances, achieving successful completion within a 12-hour time frame.
- Implemented a resilient timezone management system for the organisation's **REST APIs** using **Node Js**, ensuring smooth communication with clients across various time zones and contributing to the expansion of the company's client base by 12%.
- Achieved a substantial 65% reduction in monthly **AWS** expenses by implementing cost-saving measures and optimising AWS services.
- Optimised production archival script, achieving a notable 94% reduction in in-memory consumption. Enhanced system performance and resource utilisation.

Zunpulse – Gurgaon, India

Software Development Engineer 1

Aug 2022 - Feb 2023

- Developed an interactive voice response system using **NodeJS**, **ExpressJS**, **MongoDB**, and **MySQL**, helping improve customer satisfaction by 43 per cent.
- Incorporated the smart-home skill **Google Assistant** for voice-controlling Zunpulse devices, thereby increasing product sales by 30 per cent.
- Implemented a webhook **queue** system for **Google Assistant/Amazon Alexa** state change reporting using **Redis**, **RabbitMQ** and **Docker**.
- Built the back-end of the Zunpulse app and integrated APIs to integrate 10+ products in the app using **NodeJS**, **ExpressJS**, **Firebase** and **Google Cloud Platform(GCP)**.
- Orchestrated a device state reporting dashboard for IoT back-end, utilizing **Python**, **Flask**, and **MySQL**, resulting in real-time monitoring and analysis of device performance and reliability, leading to a 40% reduction in downtime and improved customer satisfaction.
- Integrated 2 **CRON** jobs to schedule **Whatsapp** and **email** triggers on **GCP**.

PROJECTS

SOCIOGEEKS

<https://github.com/vermaayush680/SocioGeeks>

Software Development

Sep 2022–Oct 2022

- Designed the back end of a social media app for geeks using **NodeJs**, **ExpressJs**, and **MongoDB**.
- Implemented Authentication and Authorisation using **JWT (JSON Web Token)**.
- Integrated **REST APIs** with the **React** front-end, helping increase traffic on the website by 20%.
- Deployed the backend and frontend on **Vercel**.

BIGBASKET RECOMMENDATION

<https://www.kaggle.com/code/ayushv322/bigbasket-product-recommendation-system>

Data Science/ Machine Learning

Sep 2022–Oct 2022

- Designed a recommendation system using **Python 3**, **Numpy**, **Pandas**, **Matplotlib**.
- Deployed the backend and frontend of the recommendation system using **Streamlit**.

EDUCATION

Dr M. C. Saxena College of Engineering and Technology, Lucknow

Aug 2018 - Aug 2022

Bachelors of Technology in Computer Science with a CGPA of 8.1 out of 10

Modern Academy Inter College, Lucknow

May 2015 - May 2017

12th Standard, Percentage: 94%

SKILLS AND OTHERS

Skills: Python, Java, Django, HTML5, CSS3, Data Structures, Algorithms, Git, Github, Object-Oriented Programming, Debugging, SQL, Deployment, Distributed Systems, REST APIs, Docker, NodeJs, Python3, HTML5, CSS3, Redis, MySQL, MongoDB, Redis, GCP, Django, Flask, Firebase, Azure, PostgreSQL, automation.

Languages: English (Fluent), Hindi (Native)

Hobbies: Reading, Cricket, Teaching, Finance and Investing.