

Shubham Singh

SOFTWARE DEVELOPER ENGINEER · FULLSTACK DEVELOPER

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Summary

As a software engineer with 2 years of professional experience, I have honed my skills in full-stack development and have also extensively built Natural Language Processing (NLP) oriented products. My experience spans across both B2B and B2C product-based companies, equipping me with a comprehensive understanding of diverse client needs and market dynamics.

Interested in learning and approaching my skills from different aspects, keen to explore and learn new technologies, paradigms and tools. At times likes reinvent the wheel. Believes in taking ownership of the given task.

Skills

Backend Django Ruby on Rails GoLang Laravel PostgreSQL

Frontend React Vue.js React-Native Next Js tailwind

DevOps AWS Docker Kubernetes Hugging Face RabbitMQ Redis

Work Experience

Enumerate AI - Market Research

Remote

SOFTWARE DEVELOPMENT ENGINEER

July. 2022 - Present

- Contributed to the development of a thematic analysis engine, utilizing Large Language Models (LLMs) like instruct, GPT, and BERT, alongside techniques such as language model finetuning and unsupervised clustering. These advancements enabled nuanced interpretation of open-ended responses in market research surveys, leading to significant improvements in product speed, scalability, and coherence.
- Developed data processing pipelines for media content that included tasks such as image upscaling, transcription, and speech diarization. Implemented data sanitation measures, including voice and facial activity detection. These enhancements significantly accelerated the product workflow, expediting the transition from survey completion to insight generation for users.
- As a full-stack developer, ported an existing web application to run natively on Android devices, enhancing its accessibility and user base. Also engineered offline functionality into the app to ensure usability in areas with low or no network availability.
- Tech stack:** LLM NLP Python React Native PostgreSQL AWS Kubernetes Next JS

NEETPrep - EdTech

Remote

SOFTWARE DEVELOPMENT ENGINEER

April. 2021 - July. 2022

- Engineered a User Streak feature to monitor user engagement metrics over time, helping users to better engage with the platform, resulting in a significant increase in questions solved per month from 3.5 million to 4.2 million within just one month of production. Additionally, this feature spurred a substantial 23% growth in question engagement metrics over a four-month period.
- Implemented a strategy to decrease user effort per topic by eliminating redundant questions, leveraging historical analytics data. Utilized statistical tools, including Chi-square and K-means clustering, resulting in a more streamlined user experience.
- Providing internal tooling to reduce traction of getting new content from ideation to delivery. Such as setting up a NLP pipeline for finding relevant content transcription based on question context. Utilizing PostgreSQL full text search capabilities. Implementation using custom stop words vocab & text search dictionary
- Exploring how to serve next 100k users, with decentralized live chats (using GunDB), scaling with Kubernetes & provisioning custom rocketchat builds
- Maintaining & building upon core product features such as Dynamic Test generation, Question bank, Live lectures etc.
- Tech stack:** Ruby On Rails GraphQL Node React.js Postgres AWS Kubernetes Python

Slick Technologies

Remote

SOFTWARE DEVELOPMENT ENGINEER INTERN

Jul. 2020 - Dec. 2020

- Participated in the initial phase of building a comprehensive ERP solution, implementing both backend and frontend from scratch.
- Developed robust and scalable APIs and services for processing user data asynchronously. These contributions helped transform the application to have a more real-time nature.
- Worked on designing and developing reusable components for a Single Page Application (SPA) using React. These components ensured seamless integration with backend services and significantly enhanced user interface efficiency and overall user experience.
- Tech stack:** Laravel React JS Saga Redux MySQL Redis

Projects

CodeChef Recommendation Engine

 GITHUB REPO

- Created a recommendation engine for a web application using the CodeChef REST API, enhancing user experience by personalizing problem suggestions.
- Implemented a K-means clustering algorithm to enhance the recommendation engine's functionality. This tag-based model further refined the suggestions, ensuring relevance and challenge for each individual user.
- Enhanced application performance by implementing an asynchronous task queue, ensuring timely and accurate question recommendations.
- **Tech stack:** [Django](#) [Celery](#) [scikit-learn](#) [Redis](#)

Fake News Verification System

 GITHUB REPO

- A NLP model trained on 42k data points, for classifying the authenticity of any given news article
- Integrated the model into a web application that asynchronously scrapes relevant news articles using the News API, creating a seamless user experience.
- Achieved an overall accuracy of 58% on unseen and untrained data, demonstrating the model's capability in handling real-world scenarios.
- **Tech stack:** [python-asyncio](#) [scikit-learn](#) [python-nltk](#) [Keras](#)

DGTOOnline - EdTech

 DGT

- Collaborated with a local coaching institute to create a platform for test conduction and student record management catering to national competitive exams.
- Enhanced platform functionality by integrating custom services, such as video transcoding and SEO campaigns, offering a comprehensive solution for users.
- As the sole developer, gained extensive experience in developing, testing, deploying, and understanding business demands of a project, enhancing both technical and business acumen.
- **Tech stack:** [Django](#) [Vue Js](#) [MySQL](#) [Nginx](#) [Redis](#) [Firebase](#)

Certifications

Oct. 2019 **Blockchain Basics**, Fundamentals of blockchains and cryptocurrency

Nov. 2019 **Smart Contracts**, Creating solidity scripts for automating transaction logic on ethereum blockchain

Jan. 2020 **Architecting with Google Compute Engine**, Building and deploying applications using Google Compute engine services

Feb. 2020 **Scaling and Automation with GCP**, Performing and automating platform scaling using Google Cloud platform technologies

Achievements

2018 **27th Rank**, CodeChef API Hackathon 2018

Ahmedabad, India

2018 **Regionals Qualifiers**, Gujarat Industrial Hackathon 2018

Ahmedabad, India

Education

Silver Oak University

Ahmedabad, India

B.E. IN COMPUTER ENGINEERING

2017 - 2021

- 9.56 CGPA

Kendriya Vidyalaya No. 1

Gandhinagar, India

12TH GRADE/HIGH SCHOOL

2017

- 79%