Omkar Shelar

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Career Objective :

Looking to solve important and challenging problems. Achieving excellence in Computer Science. Looking for a workplace with a culture of freedom and using my skills to play a significant role in the progress of the organisation.

Academic Qualifications :

Bachelor of Engineering, Computer Engineering (2019)
CGPA - 7.49 (Vishwakarma Institute of Information Technology, Pune (Savitribai Phule Pune University))

Class 12, CBSE (2015) Score - 68.4%
Class 10, ICSE (2013) Score - 84.67%

Technical Skills :

- **Languages :** Javascript, Typescript, Python, Java
- **Databases :** Relational Databases(MySQL), Amazon DynamoDB
- **Frameworks/Technologies :** Angular 2+, Python/Flask, AWS Chalice, GraphQL
- **AWS :** IAM, EC2, Lambda, S3, DynamoDB, Cognito, SNS, SQS
- **Certifications :** AWS Certified Cloud Practitioner, AWS Certified Solution Architect - Associate

Work Experience :

Cognizant (11 months) - June 2019 to May 2020 as a Programmer Analyst Trainee.
Worked on multiple proof of concepts to showcase capabilities to the client like i18n, feature flags using Angular. During the project I worked as a UI developer using the Angular framework.
Responsibilities - Design and develop according to given requirements. Testing of the application.
Technologies used - **Angular/Typescript/HTML/CSS**

Internship Experience :

TechHighway Systems Pvt Ltd (Pune) as a full-stack web developer on an Internal Marketing and Customer Relations tool.
Duration - **One Month**
Languages/Technologies - **PHP, Javascript, HTML/CSS, MySQL**

Projects :

Text to Image using Generative adversarial networks (4-person team) (B.E. Project):
Used Generative Adversarial Networks(GANs) to create images from textual descriptions. Given textual description, used neural networks to generate images. The model worked well for a subset of the Oxford Flower dataset. Trials on other datasets did not yield successful results.

Slack Broadcast : A progressive web application to broadcast messages to multiple slack channels using slack webhooks. Allows users to manage slack channels and corresponding webhooks. Broadcast messages to multiple slack channels at the same time.
Technologies Used : Angular, AWS Lambda, AWS Cognito, AWS DynamoDB, AWS Amplify.
Try the application: https://slack.omkarshelar.dev (*Login Required*)
More Details: https://omkarshelar.dev/work/slack-broadcast

Temporary file hosting application : Users can upload a file and choose how long the files will be available for download. The generated link is shared with people who can then download the files. Users can optionally set a password. Created a companion CLI application for uploading a file.
Technologies used: S3 signed URLs, AWS Lambda, DynamoDB, ParcelJS(for frontend app).
Try the application: https://filehosting.omkarshelar.dev
More Details: https://omkarshelar.dev/work/file-hosting

Online DNS Resolver Service :
Resolves hostname to A, AAAA, CNAME, MX, NS, NAPTR, TXT DNS records.
Try the application : https://dns-resolver.omkarshelar.dev

File Hosting Service :
Allows users to login, upload files, and organise files in folders. Written in Python/Flask. Uses AWS S3 to store user files. Used DynamoDB for storing user data like email and passwords. Boto3 library used to upload files to S3. It was an academic project.
Documentation Link : https://omkarshelar.dev/assets/S3%20Hosting.pdf

URL Shortener Service using Python/Flask :
A simple URL shortener service. Allows custom URLs and activation and deactivation of URLs. Tracks count of the number of users who clicked the shortened link.
Technologies : Python/Flask, SQLite, HTML/CSS
Link : https://github.com/omkarshelar/simple-url-shortner

Sample GraphQL implementation :
GraphQL implementation of a sample Twitter like database. It was implemented as a proof of concept for the academic report *https://omkarshelar.dev/graphql-report.pdf*
Technologies: Python, Flask microframework, Graphene, SQLite.
Link : https://github.com/omkarshelar/flask-graphene

Inventory and Billing Management System for restaurants (5-person team) :
Duration : 3 months(Third Year of Engineering)
Details : Allowed the user of the application to place orders in a restaurant. Used graphs to visualize the billing information and statistics. It used to alert the user if inventory of an item was running below threshold.
Technology : Java Swing for GUI. Java for backend. MySQL for databases.

Other Achievements :

- Took two **lectures**(AWS EC2 and S3) in my college
- Helped my professor take a **guest lecture** in AWS EC2 deployment at NBN Sinhgad School of Engineering, Pune
- Led a 4 person team on an Angular project at Cognizant Academy

Strengths :

- Quick Learner
- Curiosity to try/learn new things

Personal Information :

Present Address : Pune

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Date of Birth : 24th November 1997

Languages known : English, Hindi, Marathi

Hobbies: Reading news and Travelling