

OMKAR PRASHANT SHELAR

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SUMMARY

Computer Science student with 4+ years of experience in full-stack web-based product development. Interested in leveraging cloud technologies to help advance business needs.

EDUCATION

Master of Science (Computer Science)	Graduating December 2025
Arizona State University, Tempe, AZ	GPA – 3.44 / 4
Bachelor of Engineering (Computer)	July 2015 – May 2019
Pune University, Pune, India	GPA – 7.49 / 10

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, Go

Databases: Relational Databases (MySQL, PostgreSQL, SQLite), MongoDB, Amazon DynamoDB, Redis

Technologies: GraphQL, React, Angular, Flask, Git, GitHub, Bash, Node.js, D3.js, AWS, Sass, SQL

Certifications: AWS Certified Developer – Associate (Expired), AWS Certified Solutions Architect – Associate (Expired)

Other Skills: User Interface development, object-oriented design patterns, creating entity relationship diagrams, cloud architecture patterns for decoupling and scalability, automated unit testing, and REST API development patterns

PROFESSIONAL EXPERIENCE

Mediaocean Asia Pvt. Ltd, India: Software Engineer – Development July 2021 – December 2023

- Worked on a TV advertisement planning tool that allows customers to create and analyze linear (TV) and digital (OTT) advertising campaigns.
- Spearheaded the development of multiple interactive and responsive graphs, like line/bar/pie charts and heatmaps, to help customers explore/understand different metrics of an advertising campaign using React, TypeScript, Nivo, and D3.js
- Developed and maintained the REST API(Python/Flask) endpoints and GraphQL schemas for type-safe API access
- Contributed to the internal React components library to improve user and developer experience
- Worked closely with product management and user-interface design teams to develop new/improve existing user interfaces

Express Analytics India Pvt. Ltd, India: Web Application Developer September 2020 – July 2021

- Developed a product that aided in creating targeted marketing campaigns using customer data. Used React, Java/Spring
- Led the development of the React-based front-end of the product.
- Worked on the low-level design of the application and built custom React components in accordance with the requirements
- Developed user interfaces to manage customer segmentation via the React-based application.
- Conceptualized and developed a proof-of-concept system to test the scalability and deployment of an internal image analysis software using AWS SQS, Lambda, S3, Angular

Cognizant Technology Solutions India Private Ltd, India: Programmer Analyst Trainee June 2019 – May 2020

- Built a web-based platform for laboratory equipment management using Angular, TypeScript, and Sass
- Designed and developed software according to client requirements and wrote unit tests for the application
- Worked on multiple proofs of concepts like internationalization(i18n) for accessibility and feature flags with lazy loading in Angular

TechHighway Systems Pvt. Ltd, India: Summer Intern April 2018 – May 2018

- Developed an internal marketing and customer relations tool using PHP, JavaScript, MySQL, and HTML/CSS
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PERSONAL PROJECTS

AWS profile switcher CLI

- A CLI utility to quickly switch profiles configured via the AWS CLI toolchain
- It allows changing the active profile to any non-default profile
- Once configured, existing scripts work without overriding AWS CLI's 'profile' flag
- Built using JavaScript. Source code: <https://github.com/omkarshelar/aws-cli-profile-switch>

Least Recently Used (LRU) cache

- A simple in-memory LRU caching library written in TypeScript, which can be used on both the front-end and back-end
- Complete unit test coverage with type-safety at compile time using generics. It is published as an NPM package.
- Source code: <https://github.com/omkarshelar/lru-cache>

Temporary File Hosting Application

- Temporary file hosting application built using serverless technologies
 - Developed a web interface and CLI tool to upload files
 - Built using TypeScript, AWS Lambda (Python/Boto3), DynamoDB, ParcelJS (for front-end app), S3, Node.js
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OTHER ACTIVITIES

- Assisted my professor in teaching AWS Cloud Computing as a guest lecturer at a local college. Built presentations and tutorial documents for students. Helped students with issues faced during lab assignments.
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