Prem Raval

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SENIOR SOFTWARE ENGINEERING
Building and rolling out compelling front- and back-end of highly successful software applications.

Tech-savvy and forward-thinking professional with hands-on experience in developing and maintaining scalable enterprise software applications, while focusing on increasing user engagement and satisfaction. Proven expertise in creating test cases, conducting testing activities, and resolving complex bottlenecks and issues to guarantee high levels of performance. History of steering and delivering large-scale software engineering projects from start to completion.

▸ Demonstrated ability to build engaging end-user experiences, implementing best practices, and consistently streamlining internal processes.
▸ Exceptional leadership skills with aptitude to hire, direct, and coach world-class teams of engineers and interns.
▸ Known for innovating solutions, frameworks, automation, and orchestration for a broad range of applications, while attaining high software engineering standards in terms of resilience, security, and efficiency.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, C, C++, C#, PHP, Python, SQL, R, Dart, HTML, CSS, SCSS

Technologies: MERN (MongoDB, Express, React, Node.js), Android, Flutter, Azure, MVC, jQuery, Serverless

Cloud: AWS (Lambda, Amplify, CloudWatch, S3, SNS, SQS, IAM, API Gateway), GCP (Dialogflow)

Tools: GIT, IntelliJ Idea, Android Studio, Eclipse, Visual Studio, XAMPP, MySQL Work Bench, Visual Paradigm, Putty, Sandbox, Apache NetBeans, R Studio, PyCharm, Postman, Blender, Adobe Photoshop, Facebook Spark AR, Code Blocks, Atom, Wireshark, Microsoft Teams

PROFESSIONAL EXPERIENCE

STAN A.I., Toronto, ON   **Feb 2021 to Present**
Senior Software Engineer   **Feb 2023 to Present**

Utilize messaging queues, AWS load balancers, cloud practices, and serverless framework by developing and implementing robust, scalable architectures for existing and new products. Uncover and resolve major performance-related issues of flagship texting product by leveraging several LLM models, including GPT-4, GPT-3.5 Turbo, Bard, PaLM, and vector as well as Embeddings.

Selected Results:

▸ Attained rapid promotion from Software Engineer to Software Engineer – Team Lead to Senior Software Engineer.
▸ Maximised code maintainability and development speed by 2X via implementation of standardized core components for the React frontend.
▸ Elevated backend scalability and efficiency by 30% through successful transformation to a Microservices Architecture as well as highly efficient DB Connection Design Pattern.
▸ Drove 40% code quality via execution of thorough code and pull request reviews, while integrating testing and best practices in JavaScript, TypeScript, Python and React code bases.
▸ Built high-performance software engineering teams by proactively engaging in the hiring process, encompassing interview and onboarding of professionals on intern, junior, and intermediate levels.

Software Engineer – Team Lead   **Jul 2022 to Feb 2023**

Designed and rolled out complex flows for NLP-based bot with Google DialogFlow CX and Twilio with third-party integrations. Assisted Co-Founder in translating requirements into technical roadmaps and deadlines.

Selected Results:

- Accelerated ticket management and commit / issue pull requests by applying GitHub Projects and CI/CD.
- Improved product features and streamlined companywide processes by 100% via cross-functional collaboration with various teams, covering customer success, sales, and marketing.
- Optimised skills of interns / jr. software engineers by providing mentorship and introducing robust project workflows.
- Steered recruitment and selection activities to expand the development team from one Software Engineer to five engineers, while delivering coaching to enhance performance.
- Recognised for generating annual AWS cost savings of $10K by transitioning previously outsourced solution from EC2 to Serverless Lambda.
- Strengthened code effectiveness and database performance (MongoDB – indexing) by 40% through deployment of best software practices, such as time complexity analysis and design patterns (Singleton DB Connections).

Software Engineer   **Feb 2021 to Jul 2022**

Served as a sole Software Engineer to plan and design the product from the ground-up. Contributed to increasing user satisfaction via creation of a backend system with Node, Express, MongoDB, TypeScript, Serverless, and Stripe integration. Demonstrated expertise in AWS Amplify, AWS Lambda, AWS CloudWatch, and Azure Apps Engine to oversee the entire cloud infrastructure.

Selected results:

- Built and rolled out AI-driven Microsoft Outlook Add-In and Gmail Add-On; later deployed on major marketplaces.
- Enriched end-to-end user experience by utilising React, TypeScript, Material UI, and Fluent UI to build a user interface.

Additional experience as Part-Time Computer Science Professor at Humber College

KEY PROJECTS

MOD (2020) Mitsubishi x Bombardier

- Leveraged Python, Django, Azure, Microsoft SQL Server, and PyCharm to deliver an automation project to streamline live email scanning activities, including data receival, pre-processing, cleansing, re-formatting, standardisation, and recording.

CoderStory (2020)

- Exercised expertise in MongoDB, Express, React, Node.js, MERN, Bootstrap, REST to develop MERN stack project, CoderStory, allowing coders to engage in story-telling sessions with peers.

EOR (2020)

- Utilised Android, Java, PHP, Firebase, MySQL, GPay, Google Maps, Google and Facebook Sign In, and REST to build aa shared-economy model, EOR, enabling users to sell and purchase rented products.

JARVIS (2019)

- Used Java, Oracle 12C DB, OpenWeatherMap API, and TTS to leverage voice commands to read news and weather info.

EDUCATION

Post Graduate Certificate (GPA: 4.0/4.0) – Information Technology Solutions, Humber College, Toronto, ON, 2020
Dean's Honour List

Bachelor's in Computer Applications (CGPA: 9.6/10) – Computer Applications, GLS University, Ahmedabad, India, 2018
Awarded best SDP (System Development Project) of the year