

Shrey Patel

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M.S. Computer Science

Arizona State University, Tempe, AZ

Expected May 2025

4.00 GPA

Bachelors of Technology in Computer Science

DA-IICT, India

August 2017 - May 2021

3.8 GPA

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, SQL, C++, HTML, CSS

Frameworks: Spring, Spring Boot, Node.js, Next.js, React, Redux-Toolkit, Django

Databases: MySQL, PostgreSQL, DynamoDB, MongoDB

Tools: IntelliJ, VS Code, AWS, Google Cloud, Elasticsearch, Docker, Kubernetes, Terraform, GitHub, Postman

PROFESSIONAL EXPERIENCE

Enterprise Technology, ASU, AI Full Stack Engineer, AZ

August 2024 - Present

- Programmed a cutting-edge AI/ML platform and custom LLM applications for ASU faculty and staff as part of the AI Acceleration team using **React**, **Spring Boot**, **AWS Lambda** and, **DynamoDB** which supported **500+** users.
- Architected environments and ML pipelines for LLM applications by provisioning **Kubernetes cluster** on **AWS** using **Docker** and **Terraform**, resulting in **10%** improvement in deployment speed.
- Implemented semantic caching in **ASUGPT** application by storing vector embeddings in AWS OpenSearch vector DB doing similarity search with previous user queries, reducing OpenAI APIs cost by **23%**.

Online PSB Loans, Software Engineer, India

November 2022 - July 2023

- Executed complete design and development lifecycle of a robust login system following agile methodology, expertly integrating diverse 8+ third-party APIs using **Java**, **Spring Boot**. Driving a 25% surge in user engagement.
- Elevated front-end efficiency by 30% with **React** and **JavaScript** optimization techniques on housing loan site.
- Engineered sanction and disbursement workflow by executing REST APIs in **Java**, **Spring**, **Spring Boot**, integrated multithreading for requests handling in **Java**, utilizing **Redux-Saga** in front-end for asynchronous API calls.
- Improved handling capacity up to 1000 loan applications per day. Operated **AWS EC2** service for website deployment.
- Established robust DevOps pipelines for company's software, leveraging technologies such as Git for version control, **Jenkins** for continuous integration, **Docker** for containerization, resulting in a 10% increase in deployment efficiency.

FULL Creative, Software Engineer, India

April 2022 - October 2022

- Collaborated with **cross-functional** teams and crafted **REST APIs** using **Java**, **Spring** and **Spring Boot** for the Platform team, driving backbone of company software. Achieved a **25%** improvement in backend performance.
- Programmed and deployed APIs on **Google Cloud Platform's Compute Engine**, increasing software reliability.

Clomotech, Software Engineer, India

August 2021 - February 2022

- Developed a Price Comparison Tool for an E-commerce platform using **ReactJS**, **Redux**, **Java**, **Spring Boot**, and **MySQL**.
- Led the back-end development for a Customer Profiling project, analyzing data for **15 million** customers in an Insurtech environment using **Java** and **MySQL**, optimizing customer targeting strategies.

RELEVANT PROJECTS

Auto-scalable Image Classifier

March 2024

- Formulated an auto-scaling cloud-based image classifier using **AWS (EC2, SQS, S3, Rekognition)**, identifying people, objects, or locations from user-uploaded images.
- Optimized **Spring Boot**-based REST APIs using **Java** multithreading, integrated with **React**, achieving the capacity to process thousands of requests within **60** seconds. Enhanced system reliability by implementing **AWS CloudWatch**.

DigiLib - Document Organization System

November 2023

- Designed an ML/NLP-based solution with **Python**, **Django**, **Spring Boot**, **DynamoDB** to organize PDFs, images, videos, and audio by extracting keywords and storing it. Used **TensorFlow** and **SpaCy** for keyword extraction
- Built an advanced search feature using **Elasticsearch** for efficient file retrieval.

Job Search Portal

October 2023

- Built a social media platform using **Next.js** for job-related posts with a theme toggle feature.
- Integrated Google API for real-time news and implemented **MongoDB** CRUD operations using **Mongoose**.