

FNU Shashaank

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SUMMARY

Software Engineer with 3+ years of experience building scalable web applications, backend services, and enterprise platforms. Strong expertise in React, JavaScript, Python, REST APIs, SQL, and AWS. Experienced working in Agile teams, owning features end to end from design to production. Strong ability to analyze requirements, architect solutions, and contribute effectively in fast-paced, cross-functional engineering environments.

EDUCATION

Anderson University

Master's in Computer Science

United States

Jan. 2024 – Dec. 2025

M. S. Ramaiah University of Applied Sciences

Bachelor of Technology in Computer Science

India

Aug. 2016 – Oct. 2020

WORK EXPERIENCE

Frontend Developer

CodeRobo

Remote

Aug. 2023 – Nov. 2023

- Engineered responsive, interactive user interfaces using JavaScript, HTML, CSS, and Three.js, ensuring cross browser compatibility.
- Architected reusable UI components following component based architecture, reducing duplicated code and accelerating feature delivery by ~25%.
- Optimized frontend performance by improving JavaScript execution and rendering logic, reducing page load times by up to 25 %.
- Integrated frontend components with REST APIs, supporting authentication flows and dynamic data rendering.
- Built reusable front-end components that reduced repetitive development effort by 20–30% and improved UI consistency across the application.

Senior Software Engineer

Capgemini

Bengaluru, India

Jan. 2023 – Aug. 2023

- Implemented business process flows, decision rules, UI elements, and integrations within Pega PRPC applications, supporting reliable workflow execution.
- Streamlined case lifecycle management (creation, routing, escalation, resolution), reducing processing time by an estimated 15–20%.
- Incorporated Pega applications with external services and APIs to enhance data exchange and reduce system latency by up to 40%.
- Collaborated with business stakeholders to translate requirements into scalable Pega solutions, reducing rework and improving delivery accuracy.
- Performed tuning and troubleshooting to strengthen system stability and decrease downtime incidents.

Software Engineer

Capgemini

Bengaluru, India

Apr. 2021 – Dec. 2022

- Analyzed architecture, scalability, performance, and security requirements for enterprise Pega applications to ensure adherence to technical standards.
- Developed and customized Pega PRPC components that automated key workflows and increased process throughput by approximately 20%.
- Supported the migration of legacy processes to Pega-based systems, reducing manual workload and eliminating process bottlenecks.
- Participated in Agile sprint planning, code reviews, and retrospectives

PROJECTS

Emoji-Based Sentiment Web App — *React, Flask, Socket.IO*

Jan. 2024 – May. 2024

- Designed and developed a full-stack web application for sentiment detection from text and emoticons, incorporating real-time interaction between client and server.
- Built the backend using Flask, exposing REST and WebSocket endpoints to process user input and return sentiment responses instantly.
- Integrated Socket.IO for real-time bidirectional communication, enabling immediate sentiment feedback as users type or select emojis.
- Implemented a dynamic frontend interface using HTML, CSS, and JavaScript that supports emoji selection, text entry, and real-time display of sentiment results.
- Added user authentication and session persistence using SQLite to manage registrations and sentiment interaction history.

Facial Diffusion Generation using Conditional Diffusion Model — *PyTorch, UNet, EMA* Sept. 2024 – Dec. 2024

- Engineered a PyTorch-based conditional diffusion model using UNet, self-attention, EMA, and gradient checkpointing to generate realistic multi-ethnic facial images.
- Built full training and sampling pipelines, optimized resource usage, and evaluated model performance via wandb, MSE, and visual assessments.
- Developed a scalable backend service using FastAPI to support image similarity search with REST APIs, database persistence, and API performance optimization.

Deep Learning Based Reverse Image Search Web Application — *FastAPI, REST APIs, Backend Services, SQL/Storage* J

- Designed and developed a backend web service that enables users to upload images and retrieve visually similar results through a RESTful interface.
- Implemented a scalable service pipeline for image preprocessing, feature generation, indexing, and query execution.
- Integrated backend APIs with a web-based frontend interface allowing users to upload images and view search results seamlessly.
- Focused on API performance, modular service design, and error handling to support reliable and extensible backend operations.
- Managed static assets and processed files efficiently to ensure smooth user experience during uploads and searches.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL (Postgres, MySQL), HTML/CSS

Frontend Technologies: React, Next.js, Tailwind CSS, Responsive Design, Component-Based Architecture, Tailwind

Backend Technologies: Node.js, FastAPI, Spring Boot, Flask

APIs & Architecture: RESTful APIs, CRUD Services, Authentication and Authorization (JWT, Sessions), Asynchronous Processing, MVC Architecture

Databases & Storage : PostgreSQL, MySQL, MongoDB

DevOps, Cloud & Deployment: Docker, CI/CD Pipelines (GitHub Actions), AWS (EC2, S3, IAM)

Version Control & Collaboration: Git, GitHub, Bitbucket

Tools & Platforms: VS Code, Linux, Pega PRPC

CERTIFICATIONS

- Pega CSA (Certified Pega System Architect)
- AWS Academy Graduate - Cloud Security Foundations - Training Badge
- AWS Fundamentals: Going Cloud-Native