TUSHAR YADAV

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Open to Relocate

PROFESSIONAL SUMMARY

Full Stack Engineer | AI Enthusiast | Cloud-Native Problem Solver

Full stack engineer with 4+ years of experience building **scalable web applications** and **AI-powered platforms** across **AWS and Azure**. Skilled in **React.js/Next.js, TypeScript, Python, Django, and Node.js**, with deep expertise in designing **REST APIs, distributed systems, and cloud-native microservices**. Experienced in **end-to-end product development**, from building responsive, accessible UIs to deploying secure backend architectures and integrating AI/LLMs.

TECHNICAL SKILLS

Programming Languages: - Python, TypeScript, JavaScript
Frameworks: - Django, FastAPI, Node.js, React, Apache PySpark, Kubernetes
Databases: - SQL Server, PostgreSQL, MongoDB, Cassandra, Redis, Vector DB, DynamoDB
Cloud Services: - Azure(Blob, SQL Server, App Service, Synapse Analytics), AWS (S3, EC2, ELB, CodeBuild, Lambda, CloudWatch, EMR), Docker, Kubernetes, GitHub Actions, Azure DevOps CI/CD
AI/ML : - Prompt Engineering, LLMs, RAG, Transfer Learning, Deep Learning, NLP
Key Skills: - Agile/Scrum, TDD, Jest, PyTest, Performance Optimization, Security (OAuth2, JWT, RBAC

EXPERIENCE – 4 YEARS

Zavvis Technologies Inc. — San Jose, CA, United States
Senior Software Engineer (Finance) — May 2025 – Present

- Built **full stack applications** with **React.js/Next.js** frontends and Django/Python backends, enabling real-time CFO dashboards for cash flow, liquidity, and AR/AP metrics.
- Designed reusable **frontend components** with React and Tailwind CSS, integrated with backend APIs for seamless, interactive data visualization.
- Developed **REST APIs** and backend services with Django, optimized for performance and reliability.
- Implemented an **LLM-powered chatbot** with LangChain and RAG, integrated into a React dashboard for CFOs to query financial data in natural language.
- Containerized applications with **Docker/Kubernetes** and automated deployments with **GitHub Actions**.
- Collaborated closely with designers and frontend engineers to ensure UI/UX met business requirements.

Interco — St. Louis, MO, United States
Software Developer Intern (Metal Recycling and Sales) — May 2024 – August 2024

- Enhanced ERP platform with **React-based frontend modules** integrated with Django APIs, improving usability and cutting bug reports by 20%.
- Developed backend **APIs** with Python/Django and optimized queries in **PostgreSQL** for faster response times.
- Implemented **CI/CD pipelines** using Azure DevOps and Docker for automated deployments.
- Built responsive and accessible **React UIs** for internal reporting and dashboards.

ITC Infotech (on-site at ZS Associates) — New Delhi, India
Senior Software Engineer (Healthcare and Pharma) — November 2021 – August 2023

- Developed **web applications with React.js and Flask APIs**, ensuring responsive design and secure integrations.
- Delivered backend services hosted on AWS EC2 and Azure Functions, achieving 99.9% uptime.
- Integrated **Azure Data Factory** pipelines with SQL Server/PostgreSQL for healthcare analytics dashboards.
- Applied **OAuth2 and JWT** authentication for secure user access.
- Collaborated with product and UI teams to refine frontend requirements, ensuring accessibility and usability.
- Improved **SQL query performance** by 60% through i**ndexing and schema optimization.**

L&T Technology Services   **Vadodara, India**
Software Engineer (Oil and Gas)   **May 2019 - November 2021**

- Increased data quality and reliability **by 70%** by identifying patterns from unstructured documents and extracting key features using **Natural Language Processing (NLP)**, reducing **manual processing time by 25 hours per week**.
- Improved business strategy effectiveness by **35%** by leveraging **Power BI and advanced SQL queries** to analyze complex datasets in **SQL Server**, integrating **pandas and NumPy** for advanced data processing and actionable insights.
- Achieved **80%** accuracy in statistical analysis by automating **web scraping** using **Selenium**, extracting key features from websites.
- Reduced manual data entry workload by **60%** by executing **tabular data extraction from PDFs** using **PDFMiner, PyPDF2, and OCR**, exporting structured reports to predefined formats, ensuring accuracy and efficiency.

EDUCATION

California State University Fullerton, USA - **Master** of Science, Computer Science   Aug 2023 - May 2025
SRM Institute of Science and Technology   - **Bachelor** of Technology, Information Technology   June 2015 - May 2019

RECENT PROJECTS

- **AI-Powered Interview Coach** - (*WebRTC, MongoDB, Whisper API, Deepsearch, LangChain, GPT-4, OpenSMILE, OpenCV*)
  Designing and developing an AI-powered mock interview coach using Django, OpenAI, RAG, LangChain, and Whisper for real-time speech transcription, NLP-based response evaluation, and tone analysis with OpenSMILE. Built a responsive frontend in Next.js and Tailwind CSS with WebRTC integration for live interview sessions and performance insights.

- **PasteIt – Google Chrome Browser Extension** - *getpasteit.com – (JavaScript/ Next.Js)*
  PasteIt is a browser extension that enhances your clipboard functionality. It allows you to store multiple copied items, reorder them, and paste them easily into forms or documents.