**TUSHAR YADAV**

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Open to Relocate

**Professional Summary**

**Backend Engineer | AI Enthusiast | Cloud-Native Problem Solver**

Engineer with 5+ years of experience designing and operating **large-scale backend systems, distributed architectures, and ML-powered pipelines**. Skilled in **Python, FastAPI, and cloud-native infrastructures (AWS, Azure)** with experience handling **high-throughput, concurrent workloads**. Proven track record building **scalable APIs, optimizing system performance**, and deploying AI-driven solutions in production. Passionate about working on the cutting edge of **distributed systems, advanced algorithms, and media/AI platforms**.

**technical skills**

**Programming Languages**: - Python, TypeScript, React.js, Next.js, Tailwind CSS

**Frameworks**: - Django, GraphQL, FastAPI, 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:** - A/B Testing, Agile/Scrum, TDD, Jest, PyTest, Performance Optimization, Security (OAuth2, JWT, RBAC)

**experience – 4Years**

**Zavvis Technologies Inc. San Jose, CA, United States**

**Senior Software Engineer (Finance) May 2025 – Present**

* Designed and deployed **scalable backend services** in **Python/Django & Node.js**, powering CFO-facing analytics dashboards with low-latency APIs.
* Built and migrated APIs from **REST to GraphQL**, enabling richer queries and reducing over-fetching for frontend clients.
* Developed **end-to-end features**, collaborating with product/design teams to prototype, A/B test, and release finance-focused tools now adopted across multiple business units.
* Operated large-scale distributed systems on **AWS (EKS, Lambda, CloudWatch)**, ensuring reliability, cost optimization, and high availability.
* Automated testing with **PyTest & Jest**, achieving >90% coverage for critical components and improving release stability.
* Proposed and delivered developer tooling improvements (API mocks, CI/CD workflows), reducing dev cycle time by 25%.

**Interco St. Louis, MO, United States**

**Software Developer Intern (Metal Recycling and Sales) May 2024 – August 2024**

* Built **backend APIs in FastAPI/Node.js** and integrated **GraphQL endpoints** to improve ERP usability.
* Enhanced ERP **search performance by 50%** through SQL query optimization, caching strategies, and API redesign.
* Partnered with design and engineering teams to deliver responsive dashboards using **React.js** connected to backend GraphQL APIs.
* Automated deployments with **Azure DevOps CI/CD & Docker**, reducing release times by 60%.

**ITC Infotech (on-site at ZS Associates) New Delhi, India**

**Senior Software Engineer (Healthcare and Pharma) November 2021 – August 2023**

* Delivered secure, **high-availability APIs** using Flask and Node.js, hosted on **AWS EC2 + ELB**, ensuring 99.9% uptime.
* Designed **REST APIs and contributed to GraphQL migration**, improving developer productivity across internal teams.
* Optimized distributed data pipelines with **Azure Data Factory** and SQL Server/Postgres, cutting processing time by 50%.
* Collaborated in Agile sprints, leading feature development from design through release and monitoring.

**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 effectivenessby **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.