

Shivam Shrivastava

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Profile Summary

Results-oriented Backend Engineer with 6+ years of experience designing and developing secure, high-performance web applications. Skilled in Python, Django, FastAPI, Flask, and PostgreSQL, with a proven track record of building scalable backend systems, integrating payment gateways, and deploying microservices on AWS. Deep domain expertise in iGaming, including Casino, Lottery, and Sportsbook platforms, delivering GLI-compliant features, managing high traffic systems, and enabling market expansion across multiple regions. Currently expanding focus into Machine Learning and Generative AI, with hands-on experience in PyTorch, Scikit-learn, and Hugging Face Transformers. Actively applying Large Language Models (LLMs) in iGaming projects to enhance user engagement, automate customer support, and drive personalization at scale, deploying these solutions efficiently via FastAPI.

Passionate about clean, modular code, system optimization, and solving complex engineering challenges that drive measurable business impact.

Technical Skills

- Programming Languages: Python, JavaScript, Java
- Frameworks: Django, Flask, FastAPI, NodeJS, Hugging Face Transformers (LLM integration), LangChain
- Databases: PostgreSQL, MongoDB, Redis, Amazon Redshift
- Cloud: AWS, Docker
- Version Control and Tools: Git, GitHub, GitLab, JIRA
- Testing and Automation: Selenium, PyTest, Jest
- Others: Pandas, NumPy, Web Scraping (Beautiful-soup, Selenium), REST API Development, Socket.io, Apache Airflow, Looker

Experience

Sr Solutions Engineer, Gammastack Technologies Pvt Ltd – Indore

May 2022 – Present

- Lead engineer for online lottery domain projects, managing the entire project lifecycle—from estimation and kickoff to go-live.
- Serve as the primary liaison between clients and internal teams, ensuring clear communication and successful delivery.
- Oversee and execute critical tasks, while also resolving complex technical issues.
- Contributed to the development and deployment of multiple online sports betting platforms.

Python Developer, CDN Software Solutions Pvt. Ltd – Indore

June 2019 – May 2022

- Started as a Trainee Engineer and quickly advanced to managing key aspects of a ticketing system project.
- Engaged in direct client communication for requirements gathering and issue resolution.
- Developed and maintained RESTful APIs for core backend functionalities, focusing on performance and reliability.
- Played a key role in debugging and maintaining mission-critical components.

Projects

Custom Game - Lottery

Role: Team Lead | Tech Stack: Python fastAPI, ReactJS, PixiJS, AWS RDS, ECS, Docker, Pandas

- Led a cross-functional team of six developers, including fronted (React), backend (fastAPI), and game developers (PixiJS).
- Architected and developed game engines for multiple lottery-style games, including Dodge and Scratch.
- Collaborated with the client and regulatory compliance teams to ensure successful deployment and approval.
- Successfully launched both games, which are now live and generating consistent revenue for the client.

Sports Betting Application

Role: Backend Developer | Tech Stack: Python, FastAPI, Django, PostgreSQL, Socket.IO, Docker, AWS, Pandas

- Engineered a real-time sports betting application using modern Python frameworks for scalability and performance.
- Integrated live sports data feed from Betradar, managing full feed ingestion and processing.
- Designed and optimized PostgreSQL schemas for efficient, high-speed transactional data handling.
- Deployed and scaled the application using AWS services, including ECS and CI/CD pipelines via CodePipeline.

Ticketing Engine

Role: API Developer | Tech Stack: Python, Django, PostgreSQL, Pandas, Numpy, Docker, AWS

- Developed REST APIs for a ticketing system supporting live concerts and events with real-time purchase capabilities.
- Implemented robust offline sync and ticket redemption mechanisms for mobile clients.
- Optimized database queries and structure for performance and reliability in high-demand environments.
- Collaborated closely with the mobile development team to ensure seamless cross-platform functionality.

Education

Oriental College of Technology, Bachelor of Engineering (BE)