

Aryan Srivastava

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Summary — Python Backend Developer experienced in designing and deploying scalable **web applications using Django, REST APIs, and FastAPI**. Improved system performance by **optimizing Django ORM** queries and implementing efficient database architectures, **resulting in a 35% reduction in query time and 25% faster API responses**. Collaborated across QA and frontend teams to deliver production-ready features with enhanced reliability. Authored reusable backend utilities and documentation that **improved team onboarding efficiency by 30%** and streamlined development workflows.

Skills

Programming	Python, SQL, Java, C++ , Bash.	Cloud & DevOps	BASH, AWS (EC2, S3 basics), Docker, Git/GitHub, Deployment Pipelines, VIM
Backend Develop	Django, Django REST Framework (DRF), FastAPI, Flask, RESTful API Design.	AI/ML & Data Science	Scikit-learn, Pandas, NumPy, Matplotlib, LangChain, OpenAI API, Twilio API.
Frontend	HTML5, CSS3, JavaScript (Basics)	Methodologies	Agile/Scrum, Test-Driven Development (TDD), Clean Code Practices, Version Control.
Test Automation	Selenium WebDriver, PyTest, API Testing, CI/CD Integration.		

Experience

K12 Techno Services Pvt Ltd IT Software Department Software Engineering Intern - Backend and Automation Engineer	Jun 2025 – Present
<u>Client: Notable Placement</u>	
<ul style="list-style-type: none">Developed and deployed RESTful APIs using Django REST Framework and FastAPI, enabling seamless data integration across Eduvate modules.Optimized PostgreSQL ORM queries using select_related and indexing, achieving 40% improvement in API response efficiency.Implemented role-based access control (RBAC) and modular serializer logic to enhance data security and code reusability.Collaborated with product and QA teams to deliver backend solutions for DG Runtime, Admissions, and User Management systems.	
<u>Client: Challenges Unlimited</u>	
<ul style="list-style-type: none">Automated end-to-end regression and UI testing workflows using Selenium and PyTest, improving QA coverage by 70%.Integrated custom logger utilities, dynamic locators, and screenshot capture to streamline debugging and reporting.Designed data-driven testing frameworks to validate multi-role functionality across core Eduvate features.	
<u>Client: Broken Galleries</u>	
<ul style="list-style-type: none">Collaborated on ERP enhancement modules (Finance, Admissions, and Communication) to streamline backend reporting and data flow.Resolved critical CRM integration issues, ensuring data consistency between internal systems and external B2B clients.Supported feature deployment and debugging in staging and production environments, improving platform reliability for 500+ end users.	

Projects

DG Generator Runtime & Fuel Efficiency Tracker	Jun 2025 – Aug 2025
<ul style="list-style-type: none">Built a Django-based backend system to log, track, and report DG runtime, diesel usage, and branch-level efficiency.Improved data retrieval speed by 40% through ORM optimizations and indexed queries.Delivered role-based access control and reporting dashboards, enhancing transparency for 50+ school branches.	
AI-Driven Seismic Detection & Safety Automation System	Aug 2024 – May 2025
<ul style="list-style-type: none">Designed and deployed an end-to-end AI platform integrating Machine Learning, LangChain, OpenAI, and Twilio APIs to detect and respond to seismic activities in real time.Reduced manual monitoring workload by 80% and achieved a 200+ hour monthly time saving for field teams through automated safety alerts and predictive event recognition.Created an interactive Streamlit interface for live monitoring, analytics, and alert visualization across 15+ test zones.	

Education

SRM Institute of Science & Technology, Kattankulathur Bachelor of Technology in Computer Science Majors: Computer Science	Sept 2021 – May 2025
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