

# Aryan Srivastava

📞 6374572596 — ✉️ Aryan Srivastava — 🔗 [linkedin.com/in/aryan-srivastava](https://www.linkedin.com/in/aryan-srivastava) — 🐙 [github.com/AryanSrivastava](https://github.com/AryanSrivastava) — 🌐 Aryan Srivastava Portfolio

**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

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

## Experience

<b>K12 Techno Services Pvt Ltd</b> <i>IT Software Department</i> <i>Software Engineering Intern - Backend and Automation Engineer</i> <b>Client: Notable Placement</b> <ul style="list-style-type: none"><li>Optimized PostgreSQL ORM queries using select.related and indexing, achieving 40% improvement in API response efficiency.</li><li>Implemented role-based access control (RBAC) and modular serializer logic to enhance data security and code reusability.</li><li>Collaborated with product and QA teams to deliver backend solutions for DG Runtime, Admissions, and User Management systems.</li></ul> <b>Client: Challenges Unlimited</b> <ul style="list-style-type: none"><li>Automated end-to-end regression and UI testing workflows using Selenium and PyTest, improving QA coverage by 70%.</li><li>Integrated custom logger utilities, dynamic locators, and screenshot capture to streamline debugging and reporting.</li><li>Designed data-driven testing frameworks to validate multi-role functionality across core Eduvate features.</li></ul>	<b>Jun 2025 – Present</b>
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## Projects

<b>DG Generator Runtime &amp; Fuel Efficiency Tracker</b> <ul style="list-style-type: none"><li>Built a Django-based backend system to log, track, and report DG runtime, diesel usage, and branch-level efficiency.</li><li>Improved data retrieval speed by 40% through ORM optimizations and indexed queries.</li><li>Delivered role-based access control and reporting dashboards, enhancing transparency for 50+ school branches.</li></ul>	<b>Jun 2025 – Aug 2025</b>
<b>AI-Driven Seismic Detection &amp; Safety Automation System</b> <ul style="list-style-type: none"><li>Architected an end-to-end AI-driven seismic monitoring platform integrating Machine Learning, OpenAI, and Twilio APIs, enabling real-time detection and automated SMS alerting for emergency response.</li><li>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.</li><li>Created an interactive Streamlit interface for live monitoring, analytics, and alert visualization across 15+ test zones.</li></ul>	<b>Aug 2024 – May 2025</b>
<b>MiniCloud – Dockerized Cloud Management Platform</b> <ul style="list-style-type: none"><li>Engineered a FastAPI-powered control plane and agent network to simulate AWS-like EC2 orchestration — enabling dynamic container deployment, health monitoring, and lifecycle management of Dockerized instances.</li><li>Integrated MinIO (S3-compatible storage) using Boto3 for secure file upload, listing, and presigned URL downloads, achieving 100% local cloud simulation of compute and storage services.</li><li>Containerized and automated deployment using Docker Compose with isolated networks, persistent volumes, and RESTful APIs — demonstrating end-to-end backend orchestration and DevOps pipeline design.</li></ul>	<b>Sept 2025 – Oct 2025</b>

## Education

<b>SRM Institute of Science &amp; Technology, Kattankulathur</b> <i>Bachelor of Technology in Computer Science</i> <i>Majors: Computer Science</i>	<b>Sept 2021 – May 2025</b>
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