

PARDEEP SINGH | Immediate Joiner

Python Software Engineer

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PROFESSIONAL SUMMARY

Python Software Engineer with 5+ years of professional experience building, scaling, and maintaining production backend systems and REST APIs. Deep hands-on work with Python, Django, Django REST Framework, PostgreSQL, MongoDB, Celery, Redis, AWS, Docker, and CI/CD, including legacy modernization, framework and database migrations, production incident response, and performance tuning on a 10+ year-old enterprise codebase. Practical AI application experience across resume parsing, semantic search, transformer embeddings, FAISS vector search, and RAG-based question answering. Delivers work end to end, from requirements and implementation through testing, deployment, and production support.

Leverage Claude, Devin, and Cursor selectively to accelerate code analysis, debugging, technical investigation, and development workflows.

TECHNICAL SKILLS

Backend: Python, Django, Django REST Framework, REST API design, Celery, RabbitMQ, Redis, FastAPI, Flask
Databases & Search: PostgreSQL, MySQL, MongoDB, Elasticsearch, SQLite, Oracle, schema and data migrations
Cloud & Infrastructure: AWS (EC2, RDS, S3, SQS), Azure, DigitalOcean, Docker, Linux, Cypress
CI/CD & Engineering Tools: Jenkins, Git, GitHub, GitLab, Bitbucket, Selenium, Jira, Sentry, New Relic, Splunk, PagerDuty
Frontend: React.js, HTML, CSS, Bootstrap, Ajax
Practices: Agile, Scrum, Kanban, code review, production support, incident response, legacy modernization
AI-Assisted Engineering: Claude, Cursor, Devin | used to accelerate code analysis, debugging, and technical investigation on large legacy codebases, with implementation and review owned by the engineer

PROFESSIONAL EXPERIENCE

MITRATECH | Software Engineer 3

April 2025 - Present | Hyderabad, India (Remote)

Engineer on an enterprise SaaS product team, delivering backend and frontend functionality across a long-lived production codebase.

Drive legacy modernization spanning framework, runtime, dependency, and application-layer components.

Investigate and resolve production defects covering performance, security, and role-based access control.

Carry on-call responsibility, handling production incidents from first investigation through root cause and resolution.

Apply Claude and Devin to accelerate legacy-code analysis, debugging, and technical investigation, validating and reviewing all output before it ships.

Operate in a remote Agile team alongside engineering and customer support.

AVIOX TECHNOLOGIES PVT. LTD. | Senior Python Developer

June 2023 - April 2025 | Mohali, India

Senior engineer on a team delivering both client engagements and internal product work.

Worked directly with clients to gather requirements, clarify scope, and translate business processes into technical implementation plans.

Delivered assigned scope across the full lifecycle: implementation, testing, deployment, and post-release support.

Contributed to technical decisions, automation, code review, CI/CD pipelines, and AWS deployments across multiple projects.

VISIONTREK COMMUNICATION | Python Developer

December 2020 - June 2023 | Mohali, India

Built and maintained production web applications, moving from feature development into broader backend responsibility.

Developed REST APIs and third-party integrations, and debugged issues reported from live environments.

Engaged with clients and the engineering team to investigate issues and turn requirements into working software.

Took on progressively more complex backend and production work, including testing and release support.

WEBTUNIX AI | Python Intern

August 2019 - July 2020 | Mohali, India

Contributed to Python web development, feature implementation, and application debugging within the engineering team.
Supported machine-learning integration work, along with deployment and development environment setup.

MAJOR PROJECTS

TRAKSTAR HIRE | Enterprise Applicant Tracking System (ATS)

<https://hire.trakstar.com/>

Enterprise ATS platform covering applicant tracking, job management, interview scheduling, reporting, and hiring operations.

Technologies: Python, Django, Django REST Framework, React, Backbone.js, PostgreSQL, MongoDB, AWS, Docker, Jenkins, Cypress, Jest, Elasticsearch, RabbitMQ, Redis, Sentry, Splunk, New Relic, PagerDuty

Key Contributions:

Modernized a 10+ year-old production codebase, upgrading core Python, Django, and database versions while managing legacy dependencies, compatibility issues, migrations, regression risk, and production rollout.
Executed supporting database version upgrade and coordinated rollout using AWS Blue/Green deployment for reversibility.
Reworked CI test distribution, cutting pipeline execution time from approximately 2 hours to 35 minutes.
Diagnosed and fixed performance, security, and RBAC defects across tightly coupled legacy components.
Contributed to AI-powered resume parsing and automated candidate data extraction inside core hiring workflows.

TALENTCO | AI-Driven Hiring Platform

Hiring platform using semantic candidate matching and recommendation to connect job descriptions with candidate profiles.

Technologies: Python, Django REST Framework, MongoDB, Celery, Redis, Sentence Transformers, FAISS, AWS

Key Contributions:

Built backend APIs and core platform services in Django REST Framework as part of a small engineering team.
Implemented resume processing and structured candidate data extraction from unstructured documents.
Developed semantic matching between job descriptions and candidate profiles using transformer-based embeddings, with FAISS powering vector similarity search over candidate records.
Built asynchronous resume processing pipelines with Celery and Redis to keep document handling off the request path.
Supported AWS deployment, CI/CD, and release workflows, and implemented GDPR-related handling for candidate data.

GFR LOGISTICS | Cargo and Shipment Management Platform

<https://gfrlogistics.com/>

Greenfield cargo booking and shipment management platform built for a logistics operator.

Technologies: Python, Django, MongoDB, Managed MySQL, Managed Redis, React, Azure

Key Contributions:

Sole engineering owner end to end, from greenfield build through testing, deployment, and production delivery.
Worked directly with the client to gather requirements and convert a manual booking process into a digital workflow.
Developed full-stack application together with infrastructure, API integration, Azure deployment, and managed DB.
Client reported an approximate 30% improvement in sales and productivity after replacing the manual booking process.

TRACKD MUSIC | Music Collaboration Platform

<https://trackdmusic.com/>

Platform for musicians to share content and collaborate on tracks.

Technologies: Python, Django REST Framework, MySQL, PostgreSQL, Celery, Redis, Firebase, Stripe, AWS, Jenkins, Selenium

Key Contributions:

Built collaboration and content-sharing features, along with the REST APIs and backend workflows behind them.
Wrote automated API and Selenium tests covering core application functionality.
Supported deployment and ongoing platform maintenance.

MEDIUM PROJECTS

DOC AI CHATBOT | Document Question Answering and Retrieval System

Technologies: Python, Django, PostgreSQL, WebSockets, OpenAI API, Hugging Face, RAG, AWS EC2

Built a RAG-based document question-answering system handling document retrieval and contextual response generation, with supporting summarization and document analysis workflows.

TOTARA LMS MIGRATION AUTOMATION | Course Migration Automation System

Technologies: Python, Selenium, Tkinter, SQLite

Built a Python and Selenium automation tool that migrated approximately 1,000 courses, replacing a repetitive manual migration process.

BARYON LIMS | Laboratory Information Management System

Technologies: Python, Django REST Framework, React, AWS (EC2, S3, SQS, RDS), Celery, Firebase

Developed backend APIs and AWS-based asynchronous processing workflows for COVID-19 laboratory test processing.

EDUCATION

Master of Computer Applications | Lovely Professional University | June 2024 - September 2026

Bachelor of Computer Applications | SGGS College, Chandigarh | June 2015 - May 2018

PROFESSIONAL TRAINING

Python Industrial Training | Netmax Technologies, Chandigarh | January 2019 - May 2019

Computer Basics Diploma | Career Computer Point, Mohali | July 2018 - December 2018

HONORS

Top 5% | LinkedIn Django Skill Assessment, ranked among approximately 105,000 developers.