

Rajesh Kumar G

Python Backend Developer | Full Stack Developer

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PROFILE

Python backend and full-stack developer with SaaS, telecom and technical training experience. Independently built 10 applications now live and used by client teams. Develops REST APIs, relational data models and background jobs with FastAPI, Next.js and PostgreSQL, with hands-on Docker, VPS and Nginx deployment experience.

TECHNICAL SKILLS

Backend: Python, FastAPI, Django, Flask, REST APIs, SQLAlchemy, Asyncio, pytest, Asterisk
Frontend: Next.js, React, TypeScript, JavaScript, Tailwind CSS
Data and queues: PostgreSQL, MySQL, Redis, Celery, Prisma, BullMQ
Deployment: Docker, Linux, Nginx, Git, CI/CD, AWS EC2, S3, CodeDeploy
Design and prototyping: Figma

PROFESSIONAL EXPERIENCE

Technical Trainer

Rathinam Global University, Coimbatore | May 2026 - September 2026

Technical Trainer

Rathinam Technical Campus, Coimbatore | November 2025 - May 2026

Delivered hands-on Python, data analytics and web development sessions through practical exercises.
Conducted Figma workshops on UI/UX design and prototyping.
Developed recruitment CRM workflows for tracking, follow-ups, approvals and onboarding.
Built campus ERP workflows connecting academics, attendance, assessments and placements.

Junior Python Developer

Mallow Technologies, Coimbatore | August 2024 - August 2025

Ported a legacy C-based Interactive Voice Response (IVR) application to Python with Asterisk.
Managed the customer portal backend repository supporting customer management workflows.
Built SaaS features and helped migrate monolithic workflows to FastAPI microservices.
Refactored code and database queries, resolved defects and added pytest coverage.

Python Developer Trainee

Mallow Technologies, Remote | July 2023 - September 2023

Completed Python and Django training and built a full-stack web application using Django.

Certifications and Languages

Generative AI (Microsoft); Cloud Essentials (Veranda Learning); CCNAv7 Introduction to Networks and Introduction to Cyber Security (Cisco Networking Academy).
Tamil: Native | English: Professional working proficiency

SELECTED PRODUCTION PROJECTS

Live applications used by client teams. Product names are presentation aliases.

Stride | Assessment and Operations Platform

Next.js, FastAPI, PostgreSQL, SQLAlchemy, Redis, Celery

- Competency progression, assessments, staff coverage and hackathon workflows with scoped access. Dedicated worker queues for mail, bulk processing and analytics.

Folio | Certificate Issuance and Verification

Next.js, Prisma, PostgreSQL, Redis, BullMQ, Chromium, Ed25519

- Roster imports, versioned templates, server-rendered certificates and QR verification with signed data. Database uniqueness constraints prevent duplicate issuance.

Nexus | Student Records and Placement Platform

Next.js, FastAPI, PostgreSQL, SQLAlchemy, Redis, Celery, Docker

- Built a live student records platform used by 2,000+ students, with verified academic records, profiles and resume generation. Implemented role-based dashboards, scoped access and audit logging.

Tempo | Staff Scheduling and Workflow Management

Next.js, Prisma, PostgreSQL, Docker, Nginx

- Built a live staff scheduling platform used by approximately 50 staff to balance workloads. Implemented timetable imports, availability planning, task verification, workload exports and scheduled reminders.

Ledger | Invoice Generation Platform

React, Express, Prisma, PostgreSQL, Puppeteer

- Built a live GST-aware invoicing application with configurable templates and bulk spreadsheet imports. Implemented a dedicated Puppeteer service to generate invoice PDFs.

PATENT PUBLICATION

Universal Autonomous Cognitive Engineering Intelligence Platform (UACEIP)

A Quantum-Neuro-Symbolic Self-Evolving Digital Twin Architecture for Cross-Domain Engineering, Scientific Research, Industrial Automation, and Sustainable Smart Infrastructure.

Co-inventor | Application 202641087385 | Computer Science

Filed 17 July 2026 | Published 24 July 2026 in the Indian Patent Journal

Status: Published application

Education

M.E. Computer Science and Engineering (AI & ML)

RVS Engineering College, Coimbatore | 2026 - Present | Pursuing

B.Tech Artificial Intelligence and Data Science

Rathinam Technical Campus, Coimbatore | 2020 - 2024 | CGPA 8.11/10