

PRASANTA KUMAR GORAI

Backend Team Lead | Python & AWS | AWS Certified Solutions Architect – Associate | Agentic AI & AI-Augmented Full-Stack Engineering

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SUMMARY

Backend Team Lead and AWS Certified Solutions Architect – Associate with over 10 years of experience in Python-based software development, cloud infrastructure, and — increasingly — agentic AI systems. Currently leading a backend team at Digetful Innovations Private Limited, continuing a long-running engagement for client StrataVAR, spanning enterprise quoting platforms, distributor/vendor integrations (Cisco, TD SYNEX, Ingram Micro), and the Model Context Protocol (MCP) to connect internal systems to AI agents, alongside growing hands-on experience with AWS Bedrock and Claude tool-use.

WORK EXPERIENCE

Backend Team Lead

Digetful Innovations Private Limited • Kolkata, India

02/2026 – Present

- Leading a backend team for client StrataVAR, focused on enterprise quoting, vendor integration, and agentic AI solutions.
- Built Cisco 360 LeadGen, a full-stack estimate/lead system: React + Vite frontend, FastAPI backend-for-frontend, AWS Cognito passwordless OTP authentication, RDS MySQL, Salesforce Lead integration, and a CloudFront/S3/WAF/ALB delivery and security layer.
- Designed and deployed an MCP (Model Context Protocol) server (FastMCP) that exposes internal quoting and CPI rebate-calculation tools to AI agents, integrated with Claude Desktop and published as a remote connector on claude.ai.
- Built an AWS Bedrock Converse API agentic pipeline with tool-dispatch routing across distributor systems (Cisco, Ingram Micro, TD SYNEX, Westcon) and internal pricing/calculation engines.
- Developed a PDF quote parser using pdfplumber/PyMuPDF with Claude tool-use schema-constrained extraction, self-correction retries, and tiered model escalation (Haiku → Sonnet → Opus); an earlier version used Azure AI Document Intelligence.
- Built PyQM, a FastAPI service for asynchronous execution of Salesforce-triggered, chunked background jobs, with SQS-based queuing and Coralogix monitoring.
- Designed config-driven Excel/PDF distributor parsing including Ingram Micro Order Create API v7 and TD SYNEX Price & Availability API integration.
- Continued AWS cost-optimization work across Reserved Instances, Compute Savings Plans, and a mixed Graviton fleet, and infrastructure modernization (CloudFormation Launch Template migrations).

Lead Software Engineer

221B Baker Street • Kolkata, India

01/2020 – 01/2026

- Led AWS and Python-based development for client StrataVAR, focused on enterprise quoting solutions and vendor integration.
- Integrated third-party vendor systems, including Cisco, TD SYNEX, and Ingram Micro, through secure REST APIs, and worked extensively with Salesforce's REST, Bulk, and Metadata APIs.
- Developed a Python-based quoting tool that exports quotes to Excel using dynamic templates, with embedded HTML/image rendering inside cells and template-driven generation of complex quote structures; built a config-driven parser/dispatcher supporting multiple distributor Excel and PDF formats.
- Designed and deployed scalable AWS infrastructure (EC2, RDS, Lambda, API Gateway, SQS, S3, CloudFormation) to support large data integrations.

Lead Engineer

HCL Technology • Noida, India

08/2018 – 12/2019

- Designed and implemented a robust REST API for image analytics, incorporating live notifications via web sockets.
- Utilized multithreading to efficiently gather frames from multiple RTSP cameras, and created an interface between the analytics service and the REST API.
- Built the application on a Docker image using a Dockerfile for easy deployment.
- Developed a tool to verify coding guidelines for C and Java, improving code quality and consistency and leading to a more efficient development process.

Software Engineer

IDEMIA • Noida, India

05/2015 – 08/2018

- Contributed to requirements gathering and played a key role in the development and enhancement of an in-house build system built using Python.
- Built deep understanding of build engine internals, including DSL, size calculation, and dependency graphs.
- Implemented Python scripts to automate manual tasks and to integrate with Perforce and Git.
- Worked with the Django framework and built GUIs using Tkinter and wxPython.
- Customized Python modules such as xlsxwriter, openpyxl, sphinx, regex, pandas, and numpy to meet project requirements.

SKILLS

Languages & Core	Python, SQL
AI & Agentic Systems	AWS Bedrock, Claude/LLM tool-use, Model Context Protocol (MCP), FastMCP, agentic pipelines, prompt-driven document extraction
Backend & APIs	FastAPI, REST APIs, Django, System Design, Salesforce REST/Bulk/Metadata APIs
Cloud & Infrastructure	AWS (EC2, RDS, Lambda, API Gateway, SQS, S3, Cognito, CloudFront, CloudFormation), Docker
Automation & Tooling	Automation, Scripting, Web Scraping, Build Automation, XLRD, comtypes, GIT, Jenkins, Jira, Postman, Fiddler

ADDITIONAL INFORMATION

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

EDUCATION

M. Tech in VLSI & Embedded System

National Institute of Technology Jamshedpur
07/2014 – 06/2016 | GPA: 8.44

B. Tech in Electronics and Communication Engineering

07/2008 – 07/2012 | GPA: 8.19

ACHIEVEMENTS

Qualified GATE with 98.5 percentile, and qualified NET for Junior Research Fellowship.

College topper in class 12th.

LANGUAGES

English — Full Professional Proficiency
Hindi — Native or Bilingual Proficiency
Bengali — Full Professional Proficiency