

Sujith Gowdru | Software Developer

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SUMMARY

Software Engineer with around 5 years of experience building scalable backend systems, cloud-native applications, and AI-powered platforms using Python, AWS, and microservices architecture. Proven experience delivering GenAI solutions, REST APIs, data pipelines, and CI/CD automation across insurance, healthcare, and banking domains. Strong background in testing, compliance, and production reliability in regulated US enterprise environments.

SKILLS

Programming & Scripting:	Python, Java, SQL, JavaScript, Bash/Shell, HTML/CSS
Web & Frameworks:	Flask, FastAPI, Django, Spring Boot, Pandas, NumPy, PyTorch, Tensor Flow, Scikit-learn, Lang Chain
Cloud & Databases:	AWS (Lambda, ECS, Bedrock, S3, RDS, Glue, Athena), Azure DevOps, GCP, PostgreSQL, MySQL, MongoDB, Redis
DevOps & Testing:	Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Ansible, CI/CD Pipelines, PyTest, Unit & Integration Testing, TDD, Selenium
API & Microservices:	REST API, GraphQL, Microservices, API Gateway, Swagger/OpenAPI, FHIR, HL7 V2, Circuit Breaker
AI/ML & Methodologies:	GenAI, Agentic AI, NLP, AWS Bedrock, Anthropic Claude, Palantir Foundry, AI model deployment, Agile, Scrum, OOP, Design Patterns, JIRA, Postman

EXPERIENCE

Software Developer | AIG, NJ

July 2025 – Current

- Expanded GenAI underwriting assistant using Python and AWS Bedrock with Anthropic Claude to automate middle-market submissions, processing 100% nonprofit business and improving structured data accuracy from 75% to 90%.
- Designed and scaled Python REST APIs and microservices integrating Palantir Foundry to deploy agentic AI workflows, enabling automated extraction and processing of 125+ commercial insurance data elements.
- Strengthened AI system reliability and NAIC governance compliance by expanding PyTest coverage, implementing integration tests, and validating AI agent outputs in regulated production environments.
- Optimized PostgreSQL performance through query tuning and schema improvements for digital twin ontology systems, supporting real-time underwriting decisions, auditability, and enterprise-scale GenAI adoption.

Software Development Intern | AIG, NJ

Feb 2025 – May 2025

- Developed GenAI data ingestion and extraction modules using Python and AWS Bedrock, improving accuracy, scalability, and consistency of AI-driven underwriting decision pipelines.
- Built Flask and FastAPI services integrating Palantir Foundry with underwriting and claims platforms, enabling secure, low-latency, real-time data exchange across distributed enterprise systems.

Software Developer | CitiusTech, India

Jan 2023 – Sep 2023

- Implemented FHIR and HL7 v2 compliant REST APIs using Python to enable real-time clinical data interoperability, significantly reducing healthcare system integration latency and manual data exchange effort.
- Automated AWS-based healthcare data pipelines using Python, Lambda, and Aurora PostgreSQL, improving operational efficiency by 50% while securely processing large-scale patient records and insurance claims.
- Ensured HIPAA compliance and production reliability by maintaining 92%+ PyTest coverage, optimizing PostgreSQL and MongoDB queries, and integrating Epic EHR systems using FHIR parsers.

Application Developer Associate | Accenture, India

Jan 2022 – Dec 2022

- Built and maintained Python-based REST APIs using Flask and FastAPI for banking cloud migration initiatives, supporting AWS-based deployments and accelerating release cycles by 40%.
- Assisted in designing cloud-native microservices on AWS Lambda and ECS, focusing on scalability, fault tolerance, and database optimization.
- Implemented CI/CD pipelines using Docker, Jenkins, and Azure DevOps with 88%+ PyTest coverage, ensuring secure and compliant enterprise deployments.

Software Developer | Hexaware Technologies, India

Oct 2019 – Dec 2021

- Developed backend automation services using Python and REST APIs for healthcare adverse event detection and insurance policy management systems, reducing case review turnaround time by 28%.
- Contributed to AWS ECS-based microservices for claims processing, implementing circuit breaker and saga patterns under senior engineer guidance.
- Supported CI/CD adoption using Docker and Kubernetes with 85%+ test coverage, improving deployment consistency and client onboarding timelines.

EDUCATION

Masters in Computer Science | Pace University, NY

2025

Bachelors in Computer Science | Visvesvaraya Technological University (VTU), India

2021

PROJECTS

Interview Questionnaire Generation using LLMs

- Built a full-stack application using React.js, Typescript, Node.js, MongoDB, and Lang Chain, integrating LLMs (OpenAI, Llama) to generate and evaluate role-specific interview questions, improving on boarding speed by 50% and HR efficiency by 30%.

Age, Gender and Emotion Detection using Deep Learning

- Led development of a CNN-based Android application trained on 700k+ images to perform real-time age, gender, and emotion detection, achieving 87.43% accuracy and increasing user engagement by 40%.