PAMPANA SIVA SURYA RAM GOPAL

Software Test Engineer Trainee

📧 ramgopalpampana10@gmail.com | 📞 +91-7730072669 | 📍 Bengaluru, Karnataka, India

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[Portfolio](https://ram-gopal-portfolio.netlify.app)

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[LinkedIn](https://linkedin.com/in/ramgopal-pampana)

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[GitHub](https://github.com/Ram2669)

PROFESSIONAL SUMMARY

Dedicated Software Test Engineer Trainee at Cisco with expertise in automated testing, full-stack development, and AI-powered solutions. Proficient in Java, Python, JavaScript, and modern testing frameworks including Selenium and TestNG. Currently developing AI chatbot solutions using Azure OpenAI and building scalable web applications with React. Learning LangChain and LangGraph for advanced AI applications. CCNA certified with strong networking fundamentals and hands-on experience in test automation frameworks. Proven ability to reduce operational errors by 25% through automation and improve system performance by 40% through optimized solutions.

TECHNICAL SKILLS

Programming Languages:

Java, Python, JavaScript, HTML5, CSS3

Testing & Automation:

Selenium WebDriver, TestNG, JUnit, Cypress, Automated Testing

Web Technologies:

React, Angular, Django, REST APIs

Cloud & AI Technologies:

Azure OpenAI, AWS, GPT-4, Azure Cognitive Search

Data Science:

Generative AI, Machine Learning, Data Analysis, LangChain, LangGraph

Databases & Tools:

MySQL, Azure Cosmos DB, Git, VSCode, PyCharm, Postman

Networking:

CCNA Certified, TCP/IP, Network Protocols, Network Troubleshooting

PROFESSIONAL EXPERIENCE

November 2024 - Present

Software Test Engineer Trainee

Cisco Systems

Bengaluru, India

* Automated testing using Java and Selenium to ensure software quality
* Developing a full-stack AI chatbot using Azure OpenAI, Django, MySQL, and Azure Cognitive Search for real-time natural language query handling
* Integrating Azure Cognitive Search for intelligent schema retrieval and dynamic SQL generation
* CCNA Certified: Proficient in networking, routing, switching, and IP fundamentals

KEY PROJECTS

Ongoing

Custom Infrastructure Tool & AI Chatbot Implementation – Cisco

* Developed infrastructure management tool from scratch using Django, MySQL, and frontend technologies (HTML, CSS, Bootstrap, JavaScript) for efficient asset tracking and operations management
* Built custom AI-powered chatbot to auto-respond to infrastructure queries, leveraging Azure OpenAI (GPT-4) for natural language understanding and response generation
* Integrated comprehensive Azure services: Cosmos DB for data storage, Blob Storage for file handling, AI Search for intelligent retrieval, AI Language for NLP-based intent detection, and VNet for secure network access
* Enhanced scalability, security, and intelligence through Azure cloud integration for enterprise-level infrastructure management

2024

Network-Based Pattern Searching System

* Designed client-server architecture using Java for efficient file pattern searching across networks
* Implemented multi-threading for concurrent file processing, improving performance by 40%
* Developed robust error handling and logging mechanisms for system reliability and debugging
* Created comprehensive test suite using JUnit for unit and integration testing

2023

Self-Fuel Dispensing Automated Framework

* Built RFID-based automation system reducing operational errors by 25% and improving efficiency
* Implemented real-time monitoring and alert systems for fuel dispensing operations
* Developed user-friendly interface with HTML5, CSS3, and JavaScript for system management
* Integrated database management system for transaction tracking and comprehensive reporting

EDUCATION

August 2019 - June 2023

Bachelor of Technology in Electronics and Communication Engineering

Pragati Engineering College

Kakinada, Andhra Pradesh, India

* **CGPA:** 7.87/10.0
* **Relevant Coursework:** Digital Signal Processing, Communication Systems, Network Theory, Microprocessors

CERTIFICATIONS & TRAINING

Data Science Certification

Cisco Systems | 2025 - Generative AI Green Belt Program

CCNA (Cisco Certified Network Associate)

Cisco Systems | 2024

Certificate:

[View Certificate](https://drive.google.com/file/d/14mL6K7LUpqbGLT-ooHuhrWnoHTQOBXfT/view?usp=drivesdk)

Python Programming Certification

NPTEL | 2024

Certificate:

[View Certificate](https://drive.google.com/file/d/1yAMGl6W62l1siimLQSd23Qr6o8HdZHrc/view?usp=drivesdk)

Python (Basic) Certificate

HackerRank | 2024

Certificate:

[View Certificate](https://www.hackerrank.com/certificates/7569d3f33840)

Automation Testing

Test Automation Training | 2024

Certificate:

[View Certificate](https://drive.google.com/file/d/1p49OD-hYC9m_X9vy037mv3vWNaCblzfa/view?usp=drivesdk)

ADDITIONAL INFORMATION

* **Languages:** English (Fluent), Telugu (Native), Hindi (Conversational)
* **Technical Interests:** AI/ML Technologies, Test Automation, Full-Stack Development, Cloud Computing, Network Security
* **Professional Development:** Actively learning advanced Azure services, modern testing frameworks, and AI/ML technologies
* **Achievements:** Reduced operational errors by 25% through automation, improved system performance by 40% through optimization