RAM GOPAL PAMPANA

Software Test Engineer Trainee

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🌐 Portfolio | 💼 LinkedIn | ▓ GitHub

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 and Next.js. 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, Next.js, Angular, Django, Tailwind CSS, REST APIs

Cloud & AI Technologies:
Azure OpenAI, AWS, GPT-4, Azure Cognitive Search

Databases & Tools:
MySQL, Azure Cosmos DB, Git, VSCode, PyCharm, Postman

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

PROFESSIONAL EXPERIENCE

Software Test Engineer Trainee   **November 2024 - Present**
Cisco Systems
Bengaluru, India

- Developing comprehensive automated testing frameworks using Java and Selenium WebDriver for enterprise-level applications, ensuring 99% test coverage
- Building full-stack AI chatbot using Azure OpenAI GPT-4, Django, and MySQL with natural language processing capabilities achieving 95% accuracy
- Implementing robust test automation scripts with TestNG and JUnit for regression testing, reducing manual testing time by 60%
- Collaborating with cross-functional development teams to ensure quality assurance in agile software delivery processes
- Working with Azure Cognitive Search for intelligent schema retrieval and dynamic SQL generation in AI applications
- Participating in continuous integration workflows and maintaining test documentation for enterprise compliance

KEY PROJECTS

AI Chatbot with Azure OpenAI Integration   **2024**

- Developed full-stack AI chatbot using Azure OpenAI GPT-4, Django REST framework, and MySQL database
- Implemented Azure Cognitive Search for intelligent schema retrieval and dynamic SQL generation
- Built responsive frontend with React and integrated REST APIs for seamless user experience
- Achieved 95% accuracy in natural language query processing and database interactions

Network-Based Pattern Searching System   **2024**

- 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

Self-Fuel Dispensing Automated Framework   **2023**

- 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

Bachelor of Technology in Electronics and Communication Engineering   **August 2019 - June 2023**

Pragati Engineering College

Kakinada, Andhra Pradesh, India

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

CERTIFICATIONS & TRAINING

CCNA (Cisco Certified Network Associate)   View Certificate
Cisco Systems | 2024

Python Programming Certification   View Certificate
NPTEL | 2024

Python (Basic) Certificate   View Certificate
HackerRank | 2024

Azure Fundamentals   Certified
Microsoft Azure | 2024

Selenium WebDriver Automation   Certified
Test Automation Training | 2024

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