

SUMMARY

Detail-oriented Software Engineer Trainee with hands-on experience in Python automation, web development, accessibility compliance, and cloud-native solutions; certified in AWS, CCNA and Cisco DevNet.

EDUCATION

- Atria Institute Of Technology** Bangalore, India
Bachelor of Engineering - Information Science and Engineering; GPA: 8.59 July 2019 - June 2023
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

SKILLS SUMMARY

- Languages:** Python, JavaScript, SQL, Java
- Web Technologies:** HTML, CSS, JavaScript
- Frameworks:** TensorFlow, Django
- Databases:** PostgreSQL, MySQL
- Networking:** TCP/IP, Routing & Switching, VLAN, QoS, SIP (In Progress), ARP, IP Tables
- Tools:** Git, Docker, Jira, Confluence, GitHub Copilot, Axe, WAVE
- Platforms:** Linux, Web, Windows, AWS
- Soft Skills:** Leadership, Problem Solving, Writing, Communication, Collaboration, Time Management
- Other:** Prompt Engineering, Accessibility, Agile, Documentation

EXPERIENCE

- Cisco Systems India Private Limited** Bangalore, India
Software Engineer Trainee (Full-time) August 2024 - Present
 - Accessibility Automation:** Developed and deployed automated accessibility testing suite using Python, ensuring compliance with WCAG and Section 508 for the Expressway product.
 - Security & Compliance:** Automated infrastructure health checks and validated TLS/SSH protocols, reducing manual tests and ensuring platform security baselines.
 - Cross-Functional Collaboration:** Worked with QA and product teams to improve front-end accessibility, screen reader support, and web performance.
 - Documentation & Knowledge Sharing:** Created detailed Confluence documentation and resolved JIRA tickets to support sprint planning and enterprise grade deliverables.

PROJECTS

- Smart Glasses for Visually Impaired (IoT, Python, TensorFlow, MobileNet SSD, CNN):** Designed a wearable assistive device for real-time object detection, OCR-based text reading, obstacle alerts, and voice/tactile feedback to support visually impaired users. [\[GitHub\]](#)
- Automated Accessibility Testing Web App (Python, Flask, Selenium, axe-core, BeautifulSoup4):** Developed a Flask-based web application to test websites for WCAG 2.1 AA compliance using axe-core and BeautifulSoup4 for HTML parsing. Integrated Selenium for cross-browser testing and real-time reporting with severity-based violation tagging and remediation suggestions. Deployed on cloud with Gunicorn and responsive UI; [\[GitHub\]](#).

PUBLICATIONS

- Smart Glass for Visually Impaired People – TIJER (ISSN: 2349-9249):** Co-authored a research paper on a wearable assistive device using Raspberry Pi, MobileNet SSD, OCR, and TTS to support the visually impaired. Published in *TIJER International Journal*, Vol. 10, Issue 4, April 2023. [\[PDF\]](#)

CO-CURRICULAR ACTIVITIES

- Cisco Webex Hackathon – Accessibility Innovation Finalist:** Recognized for building inclusive design features during Cisco’s internal hackathon focused on improving accessibility in collaboration tools.
- Developer Student Clubs (DSC) – Atria Institute of Technology:** Participated in hands-on sessions on cloud, web, and DevOps technologies; collaborated on real-world projects with peers.
- Technical Speaker – Internal Knowledge Sharing Sessions:** Delivered mini-sessions on Python automation, accessibility testing with Axe, and version control best practices using Git.

CERTIFICATIONS

- Certified AWS Cloud Practitioner:** Amazon — Valid: 2024–2027 — [Click to View](#)
- Implementing and Administering Cisco Solutions:** Cisco — 2024 — [Click to View](#)
- Cisco Certified Network Associate (CCNA):** Cisco — 2025 — [Click to View](#)
- Cisco Certified DevNet Associate:** Cisco — 2025 — [Click to View](#)