

YUGAN KAVINDA

Quality Assurance Engineer Intern

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🌐 Theekshana Yugan Kavinda

📍 Embilipitiya, Rathnapura District, Sri Lanka

🔗 BlockAce01

💬 MyBlog

🌐 Portfolio

ABOUT ME

I am an undergraduate student pursuing a BSc. (Hons) in Computing and Information Systems, with a strong enthusiasm for software quality and reliability. I have gained practical experience in both manual and automated testing through academic projects and self-driven learning. My focus has been on applying QA practices within software development workflows, including areas such as CI/CD pipelines, test automation frameworks, and API testing. I am passionate about ensuring software excellence and leveraging analytical thinking, problem solving skills and teamwork to contribute effectively in a professional environment.

EDUCATION

Sabaragamuwa University of Sri Lanka | 2023-2027

Bsc Honors in Computing and Information Systems

Current GPA : 3.34

President College Embilipitiya | 2019-2021

G.C.E. Advanced Level

Common Stream : Physics, Combined Mathematics, ICT

WORK EXPERIENCE

Ceylon Effects

2025/08 - Present

Web Developer

Contract, Remote

Regional Development Bank

2022/12 - 2023/05

Internship Trainee

Full time, On-site

PROJECTS

E2E E-commerce Test Automation (Personal) 📄 🔄

10/2025

- Built an automated end-to-end testing framework using Python, Selenium WebDriver, and Pytest.
- Designed Page Object Model (POM) structure for scalable and maintainable test cases.
- Integrated data-driven testing via CSV and Pytest parameterization.
- Enabled cross-browser support with WebDriver Manager for Chrome & Firefox.
- Configured HTML test reports for CI/CD pipeline integration with GitHub Actions.
- Added custom test hooks to capture screenshots and logs for failed test cases.
- Improved testing speed by implementing parallel test execution using Pytest-xdist.

Tech Stack: Python, Selenium, Pytest, WebDriver Manager, GitHub Actions.

MyBlog - Full stack Deployment (Personal) 📄 🔄

08/2025 - 09/2025

- Built and deployed a MERN-based blog application on AWS Cloud.
- Containerized the app with Docker and configured Nginx as a reverse proxy.
- Created CI/CD pipeline using GitHub Actions for automated build, test, and deployment.
- Configured AWS CloudFront CDN and integrated SSL certificates for secure global access.
- Managed AWS resources using Terraform following Infrastructure as Code principles.
- Implemented IAM Role-Based Access Control (RBAC) for secure team-based resource access.
- Set up monitoring and logging using AWS CloudWatch for performance tracking.

Tech Stack: MongoDB, Express.js, React, Node.js, Docker, Terraform, AWS, Nginx.

Daily Lecture scheduler for G-calendar (Personal)

08/2025

- Parsed PDF timetables and synced them with Google Calendar API.
- Deployed workflow using n8n on AWS EC2 with ngrok-secured webhook.
- Configured budget monitoring tools to uptime monitoring with alerts.

Tech Stack: n8n, AWS EC2, Google Calendar API, ngrok, Gmail API, Telegram API

Examind for Sri Lankan A/L Students (Group)

01/2025 – 07/2025

- Collaborated to develop an interactive learning and discussion platform.
- Implemented quiz engine, gamification, and JWT-secured authentication.
- Integrated n8n RAG AI assistant for personalized student support.
- Performed E2E API validation and testing using Postman.

Tech Stack: Next.js, Express.js, PostgreSQL, JWT, n8n, Postman.

Reporting & Maintenance Management System (Group)

03/2025 – 09/2025

- Developed a university maintenance reporting system with Laravel, MySQL, and HTML/CSS.
- Built role-based access control for students, faculty, and staff.
- Created database structure and designed a practical solution for overlapping in issue reporting

Tech Stack: Laravel, MySQL, PHP, Blade

TECHNICAL SKILLS

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|-------------------------|------------------------|--------------|
| • Manual Testing | • Git & GitHub Actions | • Python |
| • Microsoft Excel | • Docker | • SQL |
| • Automation Testing | • Linux | • HTML/CSS |
| • Test Documentation | • Terraform | • Next.js |
| • API Testing (Postman) | • AWS | • Express.js |
| • Selenium | • CI/CD Concepts | • MongoDB |
| • Playwright | • Web Development | • PostgreSQL |
| • Pytest | • Slack | • n8n |
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SOFT SKILLS

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|---|-----------------------|-----------------------|------------|
| • Communication | • Problem-Solving | • Attention to Detail | • Teamwork |
| • Professional Working Proficiency in English | • Analytical Thinking | • Adaptability | |
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VOLUNTEERING EXPERIENCE

- Volunteered as an organizing committee member at IEEE Day 2024 SUSL
 - Volunteered in the ITECH 2.0 Innovation Exhibition organized by Karagasthalawa M.V.
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CERTIFICATES

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| • Python for Beginners (University of Moratuwa)  | • Introduction to Software Quality Assurance (University of Moratuwa) |
| • Finetuning Large Language Models (DeepLearning.AI)  | • Crash Course: Linux For Absolute Beginners (KodeKloud)  |
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REFERENCES

Miss. S.Adeeba, Lecturer (Probationary),
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