AKHILA CHIRANTHA

Software Engineer | UI/UX Designer | QA Engineer | Project Manager

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SUMMARY

Detail-oriented Software Engineer with hands-on experience in full-stack development, UI/UX design, and quality assurance. Dedicated to building a solid foundation for a successful career, combining academic excellence with practical experience in JavaScript, TypeScript, and Python development. Demonstrated ability to optimize system performance and enhance user experience through innovative solutions and data-driven design decisions.

PROJECTS

Full-Stack Developer

Learning Management System
05/2024 - 09/2024   Sabaragamuwa University, Sri Lanka

- Developed a comprehensive online learning platform using JavaScript, React.js frontend and Loopback4 backend with MySQL database that increased student resource access by 45%, serving 300+ users simultaneously.

- Implemented RESTful API architecture and database optimization techniques that decreased query response times by 37% and improved system reliability by 28%.

- Created 15+ reusable UI components that decreased development time for future features by 50%.

- In Implemented responsive design principles ensuring cross-browser compatibility and mobile-first approach, improving user retention by 35%.

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Software Developer

GPA Calculator and Performance Predictor
10/2024 - 01/2025   Sabaragamuwa University, Sri Lanka

- Built a predictive analytics algorithm using TypeScript and statistical models achieving 87% accuracy rate when forecasting student performance based on historical data.

- Optimized MongoDB database queries and implemented caching strategies that minimized calculation time for complex GPA scenarios by 65%.

- Designed and developed interactive data visualization dashboards with Chart.js used by 200+ students, increasing user engagement by 42%.

- Conducted 8 user testing sessions with 25 participants, implementing 15 feature improvements based on feedback.

VOLUNTEERING

Conference Operations Volunteer

ICARC 2024 (International Conference) 02/2024 - 03/2024

- Led a team of 5 volunteers that lowered registration wait times by 45%, resulting in 98% positive feedback from 150+ conference attendees.

- Implemented streamlined check-in process that improved operational efficiency by 40%, processing 25 registrations per hour.

- Organized 3 structured networking events connecting 35+ academic researchers with 20+ industry professionals, generating 15 documented research collaboration opportunities.

EDUCATION

Bachelor of Science in Computing and Information Systems

Sabaragamuwa University of Sri Lanka
06/2022 - 07/2026 (Expected) Belihuloya, Sri Lanka

KEY ACHIEVEMENTS

Advanced to Elite Competition Status | INSL 2024
Selected among top 10 teams in the IEEE Innovation Nation Sri Lanka provincial competition, representing Sabaragamuwa Province with innovative technical solution.

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Enhanced Conference Operations | ICARC 2024
Led operations team that reduced session transitions by 40% and improved attendee satisfaction ratings by 35% at the Annual International Conference, resulting in 98% positive feedback from 150+ participants.

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Strengthened Technical Community Engagement
Organized 5 technical workshops reaching 75+ students with 90% positive feedback, and contributed 200+ hours to 3 collaborative programming projects now used by 150+ students daily.

SKILLS

TypeScript   Python   SQL/NoSQL

Trello/Jira   Figma

Agile Methodology   Critical Thinking

Leadership   Time Management

CERTIFICATION

Final 10 Teams | INSL 2024

Provincial Competition IEEE Innovation Nation Sri Lanka – Sabaragamuwa Province

INTERESTS

Defense Technology
Fascinated by innovation in defense systems and the opportunity to contribute to national security.

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Coding Challenge
Enjoy solving complex problems through coding and participating in hackathons.

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Mentorship
Dedicated to helping others grow by sharing knowledge and experience in programming.

CONTACT

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