

Vinuki Thiranya

Software Engineer — Computer Science Undergraduate

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Summary

Computer Science undergraduate with hands-on experience in full-stack development, building AI-powered applications and e-commerce platforms. Proficient in end-to-end development, from backend API design and database management to responsive frontend implementation. A collaborative team player adept in agile environments, seeking to apply strong software engineering principles to impactful tech projects.

Technical Skills

Languages: Python, Java, SQL, HTML5, CSS3, Javascript

Frameworks and Libraries: React, Spring Boot, Tailwind CSS

Tools and Technologies: Version Control (Git), Docker, AWS, PostgreSQL, Figma, Postman, RESTful API Design

Methodologies: Agile Methodologies (Scrum), Cross-functional Collaboration

Projects

MockMate - AI Interview Platform — Full Stack Developer

June 2025 – Present

- **Technologies:** Next.js, TypeScript, Firebase, Google Gemini AI, RESTful APIs
- Developed full-stack AI platform generating customized interview questions using Google Gemini AI.
- Reduced interview setup time by 80% through automated question generation.
- Built RESTful APIs with comprehensive error handling and Firebase Firestore integration.
- Optimized API response time by 40% through query optimization and performance tuning.
- Rapidly adapted to new technologies by integrating Google Gemini AI SDK within 2 weeks
- Implemented voice-optimized question parsing for seamless text-to-speech functionality.
- Authored unit and integration tests for reliability, and performance tests that cut API response times by 25%

Auto Service Dambulla - E-commerce Platform — Full Stack Developer

March 2025 – June 2025

- **Technologies:** React.js, Spring Boot, MySQL, Spring Security, JWT, Tailwind CSS
- Led development of authentication system with JWT-based security and role-based authorization.
- Improved page load speed by 35% through React code splitting and image optimization.
- Developed features using Scrum methodology with sprint planning and daily standups.
- Collaborated in cross-functional team using Git and Jira for task management.
- Implemented user management, product catalog, and order processing features.

Distributed Logging System — Backend Developer

April 2025 – May 2025

- **Technologies:** Python, FastAPI, PostgreSQL, NTP, Distributed Systems
- Maintained 99.9% system uptime across 5+ distributed nodes with fault-tolerant design.
- Reduced clock synchronization errors by 95% through NTP optimization and drift correction.
- Developed fault-tolerant distributed system ensuring high availability and event ordering.
- Designed consensus algorithms for reliable distributed coordination and data replication.

Dogwood Flora - E-commerce System — Full Stack Developer

June 2024 – Nov 2024

- **Technologies:** Java, Spring Boot, MySQL, Thymeleaf, Bootstrap
- Built full-stack web application for floral shop with customer and admin modules.

- Automated 80% of manual tasks for shop staff through admin dashboard and inventory management.
- Implemented product CRUD operations, inventory management, and order processing.
- Developed responsive UI using Thymeleaf and Bootstrap for product browsing.

FormLang++ - DSL Compiler – Compiler Developer

Jan 2025 – Mar 2025

- **Technologies:** C, Flex, Bison, HTML
- Reduced form development time from 30 minutes to 2 minutes per form through automated HTML generation.
- Designed domain-specific language compiler for automated HTML form generation.
- Implemented lexical analysis, parsing, and code generation for form validation.
- Created declarative syntax supporting multiple input types and validation rules.

Education

Sri Lanka Institute of Information Technology

Bachelor of Science in Computer Science

Malabe, Sri Lanka

May 2023 – April 2027

Aquinas College of Higher Studies

English Language and Literature/Letters

Maradana Road, Colombo 08

March 2023 – July 2023

Certifications and Achievements

Web Development - 1. Web Design for Beginners

CODL-UOM ID: 7cA831uYML

Web Development - 2. Front-End Web Development

CODL-UOM ID: 1TCGBvh4nd

Postman API Fundamentals Student Expert

Canvas Credentials (Badgr)

Programming in Python - 1. Python for Beginners

CODL-UOM ID: RfFZUXwGMU

Programming in Python - 2. Python Programming

CODL-UOM ID: hitik80C6R

Extra-Curricular Activities

Leo Club Member - Community service and team activities

Visual Artist - Traditional drawing, painting, and digital design

References

Dr. Jeewanee Bamunusinghe

Assistant Professor

Head - Department of Computer Science

Faculty of Computing, Sri Lanka Institute of Information Technology

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