



THIMASHA THAKSHALI

Software Engineer

PROFILE

Software engineer who enjoys solving problems, designing creative solutions, and collaborating with others to bring ideas to life. Passionate about competitive programming, teamwork, and leadership, with a goal to create software that adds real value and helps people in meaningful ways.

CONTACT

PHONE:

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Nugegoda, Sri Lanka

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LINKEDIN:

<https://www.linkedin.com/in/thimasha-thakshali/>

GITHUB:

<https://github.com/ThimashaThakshali>

HackerRank:

https://www.hackerrank.com/thimasha_2021042

WORK EXPERIENCE

Pentagon I Runway (Specta Solutions)

Associate Software Engineer

11/2025 - Present

- Developing and enhancing enterprise applications across two parallel projects.
- Working on one project using the Agile Labs Expert platform
- Contributing to a second project involving UI/UX design using Figma and full-stack development using HTML, CSS and React.
- Implementing features, handling integrations, and supporting testing activities across both projects.

Software Engineer Trainee

04/2024 - 10/2024

- Developed enterprise applications using Agile Labs Expert platform.
- Implemented UI components with HTML and CSS.
- Worked with XML and JSON for validations, APIs, and system integration.
- Supported testing, UAT, deployment, and user training.

Software Engineer Intern

09/2023 - 03/2024

- Optimized ERP queries using PostgreSQL.
- Assisted in feature development, system integration, and testing.
- Contributed to UI development and user support.

EDUCATION

Informatics Institute of Technology (IIT)

2021 - 2025

Affiliated with the University of Westminster

BEng (Hons) Software Engineering

Second Class Honours, Upper Division (2:1)

Final Year Modules

- Concurrent Programming: 70
- Computer Science Final Project: 70
- Operational Research & Optimisation: 77
- Formal Methods: 76
- Cyber Security: 72

TECHNICAL SKILLS

- Java
- Python
- SQL
- HTML5
- CSS3
- JavaScript
- OOP
- ReactJS
- NodeJS
- Figma

SOFT SKILLS

- Teamwork
- Problem Solving
- Time Management
- Leadership
- Communication

CERTIFICATIONS

- Software Engineer - HackerRank
- Software Engineer Intern - HackerRank

REFERENCES

Mr. Asiri Madusanka

Delivery Manager,
Perfect Business Solution Services (Pvt)
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Ms. Akarshani Amarasinghe

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St. Paul's Girls' School Milagiriya

2012 - 2020

GCE Advanced Level - Mathematics Stream (2020) – 3S

GCE Ordinary Level (English Medium) (2017) – 8A 1B

PROJECTS

Star Sentinel - Fear Detection application

2025

Developed a Wear OS safety app using Kotlin, Python, TensorFlow, and Flask to detect fear from heart rate and speech. Used Google Colab for model training, Android Studio for app development, and GitHub/Git for version control. Collected and preprocessed ECG/audio data (HRV, MFCCs) from the MAHNOB-HCI dataset.

Concurrent Banking System

2025

Developed a Java-based banking system in IntelliJ IDEA for secure money transfers, ensuring deadlock prevention and transaction consistency.

Smart Privacy - Encrypted Health Data System

2025

Built a secure Python/Flask backend with MongoDB that anonymizes users via system IDs and encrypts sensitive PII to protect privacy, while allowing safe health data storage and controlled decryption only by authorized roles.

Deepsense - Suicidal text detection application

2023

Developed an Android app using Kotlin, Python, and SQL. Applied Google Colab for model training, Android Studio for app development, and GitHub/Git for version control.

ACHIEVEMENTS

- **IIT Excellence Award 2025** - Undergraduate Award for Outstanding Performance at Competitions
- **IIT Excellence Award 2025** - Undergraduate Merit Award for Performance at Competitions
- **IEEE Sri Lanka Section FYP Arena 2025** (Undergraduate Project Competition): Finalist
- **Mini Hacksphere'25**: 1st Place
- **Coderally 6.0 - Advanced Tier** (2025): 2nd place
- **CODEDROP** (2025): 3rd place
- **Algothon** (2025): 5th place
- **AdaptIQ** (2025): Finalist
- **SLITXtreme 4.0** (2025): Finalist
- **Artemia 1.0 - Phase 1: Ideathon** (2025): Finalist
- **Problem Solving International Hackathon** (2025): 2nd place
- **IEEEXtreme 18.0** (2024): 5th in IIT, 52nd Nationally, 674th Globally
- **Haxpedition**: Mini Hackathon (2024): 1st Place
- **IEEEXtreme 17.0** (2023): 9th place in IIT
- **PrologueX** (2023): 3rd Place