

# Kavitha W. Karunaratne

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I am an undergraduate student at the University of Westminster seeking an employment opportunity in the IT field that will enable me to contribute my skills and experience while increasing my knowledge.

## EDUCATION

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**University of Westminster**

**London, UK**

**(Affiliated with Informatics Institute of Technology)**

*Expected Graduation, Sep 2027*

*BEng (Hons) Software Engineering*

- **Concentrations:** Software Development, Web Design and Development, Algorithms, Database Systems, Object-Oriented Programming
- **Related Coursework:** Website development, Python, Java, Full-stack project with Spring Boot and React.js

**Informatics Institute of Technology**

*Sep 2022 - Sep 2023*

*Foundation Certificate in Higher Education*

**Nenasala Gampaha**

*Apr 2019 - Jun 2019*

*Diploma in ICT*

## PROJECTS

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**Skill2Skill - Skill Sharing Web Application (Ongoing)**

*Expected implementation Mar - 2025*

- Description: A unique skill-sharing web application designed to facilitate non-monetary skill exchange among individuals worldwide.
- Technology Stack: PostgreSQL, NestJS, Python, React.js, Neo4j.
- Key Features: Skill-matching algorithms, real-time communication, user rating & feedback system, profile management.
- Role: Actively contributing to backend development using NestJS and PostgreSQL, implementing API endpoints, and ensuring seamless integration with React.js frontend.

**Real-Time-Tix-Manager**

*Sep 2024*

- Designed and implemented a full-stack system using Spring Boot and React.js, ensuring seamless communication through RESTful APIs.
- Applied advanced Object-Oriented Programming (OOP) concepts, including inheritance, polymorphism, and encapsulation.
- Developed a multi-threaded backend to handle concurrent ticket sales, using producer-consumer patterns for synchronization.
- Enhanced system performance with real-time updates, robust error handling, and logging.

**Cambium**

*Apr 2024*

*Team Member*

- Developed a dynamic and responsive e-commerce platform using HTML, CSS, and JavaScript.
- Implemented JavaScript event handlers and CSS animations to enhance user interaction.

**Aero-Seat**

*Mar 2024*

- Implemented features for searching tickets, displaying seat arrangements, and locating available seats using Java programming language.
- Utilized Java fundamentals, including classes, objects, arrays, file I/O, and exception handling.

### Student-Grade-Tracker

Dec 2023

- Applied loops, conditionals, lists, functions, and exception handling to manage student records.
- Developed a histogram-based visualization for student progression data using graphics.py.

### ACTIVITIES

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IEEE Member

Mar 2024 - Present

IEEE Women in Engineering

Mar 2024 - Present

Embark Volunteer

Sep 2024 - Present

### SKILLS

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**Programming:** Java, Python, JavaScript, HTML/CSS, SQL, Postgres

**Tools:** IntelliJ, PyCharm, Git

**Frameworks and Libraries:** Spring Boot, React

**I am currently learning:** NestJS, PHP, Angular

**Languages:** English, Sinhala

**Interests:** Swimming, Reading books, Travelling

### REFERENCES

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Mr. Thilanga  
Liyanage

Lecturer (Visiting)  
Informatics Institute of Technology

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