

# Thanushanth Kanagarajah

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## Education

<b>BSc Engineering</b>	<b>University of Moratuwa</b> , Computer Science and Engineering • GPA: 3.34/4.0	Jan 2021 – Present
<b>Advance Level</b>	<b>Jaffna Hindu College</b> , Physical Science • Z Score: 2.6735      Island rank: 96 • Combined maths: A      Physics: A      Chemistry: A	Jan 2017 – Aug 2019

## Experience

<b>Ackcio</b> , Embedded Software Engineer Intern • Integrated Modbus TCP protocol for efficient data communication in embedded systems • Managed and optimized network configurations, including Wi-Fi, cellular, LAN, and hotspot connectivity; automated APN selection to enhance network performance. • Analyzed and optimized the battery performance of IoT devices under varying temperature conditions to extend device lifetime. • Technology stack: Python, TypeScript, C, Jira, BidBucket, raspberry pi	Singapore, SG Dec 2023 – Jul 2024
<b>Viso</b> , Software Engineer • Designed and developed databases using MySQL and MongoDB to ensure efficient data storage and retrieval • Built and maintained backend applications using Node.js, enhancing server-side functionality and performance • Lead and coordinated team efforts to achieve project milestones and deliverables • Technology stack: Node.js, MySQL, MongoDB, Postman API	Colombo, SL Jan 2023 – Jun 2023
<b>Teaching Assistant</b> , Computer Architecture Module • Assist in teaching the Computer Architecture module, providing support to students in understanding course material and lab work. • Facilitate discussions, hold office hours, and assist in grading assignments and exams.	University of Moratuwa, SL Jun 2024 - Nov 2024

## Projects

<b>Life Saver</b> • Lead the team in developing a life-saving emergency assistance web application that provides instant alerts to nearby hospitals and ambulance services at the press of a button. Implemented a medical chatbot to provide immediate guidance and integrated Google Maps for real-time location tracking. • Responsibilities included database management, back-end development, Google Maps integration, deployment, and front-end development. • Technology Stack: Node.js, MySQL, React.js, Google Maps, Rasa, WebSocket. • Deployment Platforms: Microsoft Azure, Heroku, Vercel, Postman API.	Jul 2023 – Nov 2023 <a href="#">life-saver.git</a> 
<b>Account Management</b> • Lead a team in developing a shop account management system that tracks ex-	Apr 2023 – Aug 2023 <a href="#">Account-Management.git</a> 

penses, incomes, and loans. Collaborated on building a comprehensive platform for generating reports and efficiently managing shop accounts.

- Responsibilities included back-end development and database management to ensure seamless data handling and retrieval.
- Technology Stack: Node.js, MySQL, React.js, Postman API.

### Full Supply Chain Management

Nov 2022 – Jan 2023  
[DBMS-Project.git](#)

- Lead the development of a user-friendly application to enhance customers' buying and selling experience.
- Focused on database management and back-end development while contributing to front-end development tasks.
- Technology Stack: Node.js, MySQL, Postman API, React.js.

### Email Client using SMTP through Java

Jan 2022 – Jul 2022  
[OOP-Email-Client.git](#)

- Developed a simple email client using Java, adhering to object-oriented programming principles and utilizing the SMTP protocol with Javax.mail API.
- Technology: Java.

### Multi Mail Client using SMTP through Java

Jan 2022 – Jul 2022  
[Multimail-Client.git](#)

- Created an email client that utilizes Java and the SMTP protocol via Javax.mail API to send multiple emails simultaneously in a specified format.
- Technology: Java.

## Achievements

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Idealize - Finalist	2023
IEEE R10 Robotics - Second Runner-up	2023
Hackforce'22 - Second Runner-up	2022
SLRC - Participation	2023

## Volunteering

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<b>Organizing Committee Member, IESL Robogames 2023</b>	2023
<ul style="list-style-type: none"> <li>• Contributed to the organization of the event under the Computer Science and Engineering Department, University of Moratuwa.</li> </ul>	
<b>Exam Coordinator, Mora Exams 2022</b>	2022
<ul style="list-style-type: none"> <li>• Coordinated exam processes for Mora E-Tamils at the University of Moratuwa.</li> </ul>	
<b>President, Science Union</b>	2018
<ul style="list-style-type: none"> <li>• Led the Science Union at Jaffna Hindu College, promoting scientific engagement among students.</li> </ul>	
<b>Vice President, Drama Society</b>	2016
<ul style="list-style-type: none"> <li>• Assisted in managing activities and productions for the Drama Society at Jaffna Hindu College.</li> </ul>	

## Technologies

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**Programming Languages:** Python, JavaScript, C++, C, Java, MySQL, mongodb, Vivado-VHDL

**Technologies:** Node.js, Embedded Systems, AWS, Docker

**Hardware:** Arduino, Raspberry Pi, Esp32

**Tools:** Git, GitHub, Jira