

# Dahami Nethsarani

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## PERSONAL PROFILE

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I'm a highly enthusiastic and dedicated individual who is passionate about programming, innovative thinking, problem solving and software development. I am currently seeking for opportunities to expand my skills and experience to become a qualified professional in the industry.

## EDUCATION

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**University of Ruhuna** 2021 - Present

*B.Sc. Eng. Hons. in Computer Engineering | SGPA : 3.51*

**Sujatha Vidyalaya Matara** 2017 - 2019

*G.C.E. Advanced Level Examination : 2 As, 1 B | Z score : 1.9632 | District Rank : 48*

## INTEREST AREAS

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- Web Development
- UI/UX Designing
- AI and Machine learning
- Mobile App Development
- QA Engineering
- Processor Designing

## PROJECTS

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**E-Learning Platform for Verilog Code Beginners** Nov 2023 - Ongoing

- Designed an intuitive platform with a user-friendly interface and integrated functionalities, aimed at enhancing the learning experience of Verilog code beginners.
- Technologies : MERN, Java Script, HTML, CSS
- Contributions : Frontend Development

**E-news Portal Website** Oct 2023

- Developed a web-based E-news portal, offering a dynamic user interface and real-time updates for an engaging and informative news consumption experience.
- Technologies : MERN, Java Script, HTML, CSS

**Carpooling Application** April 2023

- Implemented a carpooling application to use by both drivers and the passengers with functionalities like CRUD with tracking operations using graph data structure.
- Technologies : C++, Codeblocks
- Contribution : Implemented Rider class

**Student Management System** April 2023

- Developed a Student Management System offering a user friendly interface with CRUD operations.
- Technologies : Wpf, C#

**Online Market Place** Sep 2023

- Developed an online market place using MySQL under the Data-Base System module.
- Technologies : MySQL

**Digit Recognition using Logistic Regression** Jan 2024

- Developed a Python-based digit recognizer utilizing machine learning techniques, trained and evaluated on a comprehensive dataset of handwritten digit images.
- Technologies : Python, Logistic Regression

## Customer churn prediction using ANN

Mar 2024 - Ongoing

- Implementing an artificial neural network (ANN) model to predict customer churn, using machine learning techniques to analyze and forecast customer behavior.
- Languages : Python
- Libraries : Pytorch

## RICS V 32 bit Processor Design

Jan 2024

- Developed a 32-bit RISC V processor without pipelining for executing R-type and I-type instructions.
- Technologies : Verilog, Modelsim

## Automated Dual-Axis Solar Tracking System for Enhanced Energy Efficiency

April 2023 - Ongoing

- A solar panel system that positions at an angle relative to the Sun to maximize the solar energy production. The solar panel will be mounted on a dual-axis movement system, adjusting according to sunlight intensity.
- Tools : Arduino

## SKILLS

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### Technical Skills

- Programming Languages : Java, Python, C/C++/C#, Verilog
- Web Development : HTML, Node js, JavaScript, React js
- Databases : MongoDB, MySQL, Cassandra
- Frameworks : MERN, Spring Boot
- Other Tools : Figma, Visual Paradigm, AutoCAD, Proteus

### Soft Skills

- Team Work
- Problem Solving
- Leadership
- Adaptability
- Analytical Thinking

## ACHIEVEMENTS

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- Participated 'MoraXtreme 8.0 - 2023 Algorithmic Coding Competition' organized by University of Moratuwa.
- Completed 'Soft Skills Development Course' organized by University of Ruhuna.

## VOLUNTEER

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### IEEE Organization - University of Ruhuna | *Committee Member*

### 'Xbotix 2023' Robot Competition | *Committee Member*

Robotic competition organized by University of Ruhuna.

### SLU Leadership Camp

Organized by Career Guidance Unit of Faculty of Engineering - University of Ruhuna.

### English Camp

Organized by Career Guidance Unit of Faculty of Engineering - University of Ruhuna.

## Reference

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### Dr. Rajitha Udawalpola

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Department of Electrical and Information Engineering,  
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University of Ruhuna.

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### Dr. Thilina Weerasinghe

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