WARUNI GUNASENA
SOFTWARE ENGINEER

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Profile

Dedicated and self-motivated IT undergraduate with hands-on experience in software engineering, gained through a comprehensive internship. Seeking a software engineering position to further enhance skills in software development, problem-solving, and teamwork. Committed to contributing to impactful projects while continuously learning and growing in the dynamic IT industry.

Work Experience

Software Engineer Intern — Agrithmics (Cultive 8) , Colombo 06, Sri Lanka — **Mar 2024 - Sep 2024**

- Developed and optimized APIs for report generation across multiple screens in various projects, improving data processing efficiency.
- Led the payroll module development team through release, ensuring functionality validation using RabbitMQ.
- Designed and implemented front-end screens, resolved critical bugs, and enhanced UI/UX.
- Wrote APIs and conducted unit testing to improve software reliability and performance.

Education

B.Sc.(Hons)in Information Technology — University of Moratuwa, Faculty of Information Technology — **Aug 2021 - Aug 2025**

B.Sc. (Hons) in Information Technology - Cumulative GPA : 3.42

Diploma in English — Sabaragamuwa University of Sri Lanka

G.C.E. Advanced Level Examination — Sivali Central College, Rathnapura
Chemistry - A | Biology - B | Physics - C

Projects

Analysis on the effect of Metadata changes on the reach of YouTube videos in Sri Lankan Context (2025)

Developed machine learning models to predict video engagement using Singlish metadata, optimizing YouTube visibility via text analysis/preprocessing. Pre-trained and finetuned a custom LLM to generate linguistically tailored titles/descriptions for Sri Lankan trending content.

Technologies used — Python, ML Techniques, NLP techniques.

Expense Tracker (Individual Project | 2025)

Developed a full-stack application with user authentication (Login & Sign-Up), allowing users to securely manage their income and expenses. Implemented a dashboard that provides a summarized view of total income, expenses, and recent transactions, with all transactions stored securely in a database for better financial tracking

Technologies used — MERN Stack

CRM System (2022- 2023)

Developed a customer relationship management system with features like automated payment reminders, integrated chat, surveys, and newsletters to boost engagement. Created a dashboard for monthly survey analysis with graphical insights and automated feedback forms to improve customer satisfaction. Implemented a mailing system for sending newsletters, enhancing customer relationships

Technologies used — React JS, .NET, MSSQL

Loan approval prediction model (2025)	Performed data preprocessing on the dataset, handling missing values, encoding categorical labels, and removing outliers. Conducted feature correlation analysis using heatmaps and split the dataset for model training. Trained and evaluated multiple ML models, including Random Forest, Logistic Regression, Decision Tree, MLP, and XGBoost. Developed an ensemble model that achieved 92% accuracy.
Technologies used	Python, Jupyter Notebooks
Sports Equipment Quality Checker -Hardware Project (Group Project - 2021-2022)	When the user selects the sport and enter the equipment to the machine, It shows the condition of the equipment.
Technologies Used	C, Proteus, Atmel Studio, Atmega32, 4x4, Keyboard, 16x2 Display

Technical Skills

Programming Languages	Java	C	C#	Python
Web Technologies	Front-End : React	JavaScript	Tailwind CSS	HTML
	Back-End: Express.Js	ASP .NET Core
Database	MySQL	MSSQL	MongoDB
Automation Frameworks	Selenium	Cypress
Version Controlling	Azure DevOps	GitHub
AI/ML Frameworks & Libraries	PyTorch	Scikit-learn
AI/ML Techniques	Supervised Learning	Unsupervised Learning	Deep Learning	Natural Language Processing

Soft Skills

Open mindedness	Leadership	Problem Solving	Curiosity
Communication skills	Team work	Active Listening	Adaptation

Achievements

Sports	Member of Netball Team, University of Moratuwa (University colors - 2023/2024)
	Former Netball Captain in Sabaragamuwa Province National Level Participation
	• National Sports Festival-2020-2025 • Inter Club National Tournament for the RDNA Trophy-2022 • "Rising Stars" National Netball Tournament-2019
	Player of volleyball, throw ball, and athletics up to the provincial level
IT Faculty - University of Moratuwa	Batch Representative - Level 1 / Level 4
	SLIIT algothan 2024 - team rank 31
	Volunteering
	• "FIT saviya" Seminar project for A/L • "Are you ready? 2023" Official Career Fair Company Coordination (Rotaract Club of University of Moratuwa)

Non Related Referees

MS. Devendra D.A.I.D.

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