

# RUKSHAN EDIRISINGHE

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📍 Toowoomba, QLD, Australia

## OBJECTIVE

To leverage my comprehensive technical skills and problem-solving abilities as an IT professional in a dynamic organization. I am dedicated to enhancing systems efficiency, implementing robust security measures, and delivering high-quality technology solutions that align with business goals and drive digital transformation.

## SUMMARY

Results-driven IT professional with a strong foundation in software development, database management, and IT project coordination. Skilled at translating technical requirements into effective solutions, ensuring secure and efficient operations. Recognized for excellent troubleshooting skills and a proactive approach to IT challenges.

## EXPERIENCE

### Farm Hand

#### Bony Mountain Farm (Darwalla Milling Co Pty Ltd)

📅 02/2023 - Present 📍 Southern Darling Downs, QLD, Australia

Queensland's leading poultry producer since 1933.

- **IoT Applications in Farm Management:** Experience in the farming industry provides a practical understanding of how IoT can be integrated into farm operations.
- **Data Science for Precision Agriculture:** By collecting and analyzing farm data, such as crop yield, soil quality, and weather patterns.
- **Machine Learning in Livestock Monitoring:** Machine learning models could be employed to detect patterns and anomalies in livestock behavior, health, and growth.
- **Environmental Monitoring and Climate Resilience:** Farms are susceptible to climate variations.
- **Automation and Efficiency through IoT:** The use of IoT sensors and automated machinery in farming can streamline labor-intensive tasks.
- **Energy Management and Sustainability:** Sustainable energy management is essential in agriculture to reduce operational costs and environmental impact.

## EDUCATION

Master of Information Technology, majoring in Software Development and Research

#### University of Southern Queensland

📅 02/2023 - Present 📍 Toowoomba, QLD, Australia

Bachelor's in Information Technology

#### University of Colombo

📅 2013 - 2014

📍 Colombo, Western Province, Sri Lanka

Higher Diploma in Information Technology (HDIT)

#### University of Colombo

📅 2012 - 2013

📍 Colombo, Western Province, Sri Lanka

Diploma in Computer Studies (DICS)

#### Iterative Data Management (IDM)

📅 2004 - 2005

📍 Negombo, Western Province, Sri Lanka

Diploma in Hardware and Networking

#### Turnkey IT Training

📅 2004 - 2004

📍 Colombo, Sri Lanka

## PROJECTS

Nursing and Midwife Job Match

📅 08/2024 - Present 📍 Toowoomba, Australia

#### A website designed to support the Australian graduate nurse and midwife

- Facilitated the smooth transition through tailored job match for each and every individual

Archery Competition Management System

📅 06/2024 - 08/2024 📍 Toowoomba, Australia

#### Manage archery competitions, participants, judges, and scoring

- Analyzed and applied key OOP principles to optimize the code structure, enhancing modularity, reusability, and maintainability.

Learning and Evaluation Management System

📅 2022 📍 Negombo

#### Web Based Learning Solution for GCSE OL / AL | IT Courses as Packages

- Improved student learning and engagement on complex learning topics

## EXPERIENCE

### Computer Science Teacher, Subject Coordinator

#### St. Nicholas International College

📍 Negombo, Western Province, Sri Lanka (2015--2017, 2020-2023)

Catholic International School governed by the Archdiocese of Colombo

- **Assignment Upload Program:** Developed and implemented an assignment upload program, streamlining the submission and grading process for students and teachers.
- **Computer Lab Management Software Solution:** Offered a comprehensive computer lab management software solution that included auto shut-down, resetting user preferences and customizations on shutdown, and a self-made activity pack to optimize lab usage.
- **Synchronization Program for LK-Exam Online Learning System** Developed a synchronization program for the LK-Exam Online Learning System to ensure data consistency and reliability.
- **Practical Timetable Preparation for Computer Lab:** Designed and implemented a practical timetable preparation system for the computer lab, enhancing the scheduling and allocation of lab resources.
- **Tutoring and Evaluations:** Cambridge University Computer Science Courses 9608, 9618, 2210 Examination students preparation.
- **Computer Language Support:** Preparation of Pre-Release Materials for 2210, 9618 and 9608 Courses.
- **Programming language Support:** Q-BASIC, Visual Studio, Python, SQL, HTML, JavaScript, PROLOG.

### Education Manager, Programmer and Software Developer

#### DNR Holdings PVT LTD

📅 2010 - 2014 📍 Ja-Ela, USA

Technology Training Institute

- **Data-Driven System Optimization:** Analyzed system performance of DATA.
- Identified areas improved leading to optimized workflows and increased operational efficiency.
- **Business Intelligence and Reporting:** Developed reporting systems and dashboards that provided insights into key business metrics, enabling data-driven decision-making for management.
- **Database Management and Integration:** Managed and integrated databases.
- Maintain DATA accuracy and consistency, which supported various business analysis and process automation initiatives.

### IT Lecturer | Course Coordinator

#### E-Soft Metro Campus

📅 02/2013 - 08/2015 📍 Negombo, Western Province, Sri Lanka

Private Educational Institute

- **Curriculum Development and Instruction:** developed and instructed computer science curriculum.
- **Programming Languages:** (Python, C#, PHP), database management (MySQL, SQL Server) and software engineering modules.
- **Technology Integration in Learning:** Implemented digital tools and platforms to enhance the interactive learning experience, including developing online resources and supporting both on-site and remote learning environments.
- **IT Infrastructure Management:** Managed the maintenance and upgrading Project Guidance and Support: Provided guidance on numerous final year projects.
- **Increased student retention** by 25% through engaging, high-impact teaching approaches and updated course materials.

## PROJECTS

### Web-Based Software Automation for Training Management

📅 2013 - 2014 📍 Colombo

#### BIT Final Year Project at DNR

- Analyze company training data set and designed a data model
- Designed and Implement codes and algorithms for line and bar charts from the scratch in PHP

### Computer Lab Management Software

📅 2021 - 2022 📍 Negombo

#### Automated centralized control of PCs via network management

- Programmed to automate PCs to enhance individual student engagement.

### Loyola College Website

📅 2008 📍 Negombo

#### AJAX, HTML, CSS and XML

- Designed and complete entire life cycle of the website by analyzing the previous web for data models

## STRENGTHS



#### Extensive Teaching Experience

Over 25 years in ICT education, delivering multi-mode courses and developing industry-relevant curricula.



#### Industry Knowledge and Practical Insight:

Strong understanding of computing applications in real-world environments



#### Curriculum Design and Pedagogical Skills

Proven ability to design adaptable, multi-modal curricula that accommodate diverse learning needs and styles



#### Research-Oriented Mindset

Engaged in current academic research with an interest in **Data Science, Machine Learning, and IoT**



#### Collaborative Approach:

Experience working with cross-functional teams and stakeholders, which facilitates effective collaboration with colleagues



#### Future-Focused Mindset

Eager to pursue a PhD and contribute to emerging fields in Computing, which aligns with the University's strategic goals

## PASSION



#### Data-Driven Decision Making



#### Innovative Data Visualization

## EXPERIENCE

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### IT Teacher and Centre Manager

#### Loyola College

📅 01/2007 - 12/2009 📍 Negombo, Western Province, Sri Lanka

Catholic Educational Institute

- **Lesson Plan and Evaluations:** Assisted in the creation of lesson plans that aligned with state standards, aiding in a 15% uptick in student success rates.
- **Computerized Examination for the MS-Office Course:** Developed and implemented a computerized examination system for the MSOffice course, enhancing the efficiency and accuracy of assessments at Loyola College.
- **Stage Wise Student Learning System:** Designed a stage-wise student learning system to track and support student progress, ensuring a structured and incremental learning experience.
- **Automate an Office Printing Task of an Annual Event (Loyola College):** Significantly reducing manual effort and streamlining the printing process.
- **IT Exhibition Stall Projects:** Coordinated and showcased 8 individual student projects at the Loyola Exhibition IT Stall in 2009.

## REFERENCES

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#### Dr Taotao Cai

Lecturer (Computing)  
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## PASSION

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AI, Machine Learning and Research



IoT, Robotics and Game Development

## TECHNICAL SKILLS

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Networking

Cybersecurity

Supervision

Cloud Computing

Software Development

Games Development

Research and Publication

Data Science

Computing Curriculum Design

Multi-Mode Teaching

Machine Learning

IT Services

Mathematics