

# AQUEEL ISHAK

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🔗 [GitHub](#) | 📁 [Portfolio](#)

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## PROFESSIONAL SUMMARY

Passionate and results-driven IT educator with a strong background in software engineering and a proven track record of teaching IT for both G.C.E. Ordinary Level (O/L) and Advanced Level (A/L) students. Renowned for simplifying complex concepts, fostering curiosity, and creating an engaging learning environment that empowers students to not only pass exams but to genuinely understand and love the subject. With a blend of real-world industry experience and a student-first teaching approach, I bring both relevance and inspiration to the classroom. Committed to shaping future tech minds with patience, creativity, and clarity.

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## EDUCATION

### **Bachelor of Software Engineering (Honors)**

The Open University of Sri Lanka | *2nd Year (Reading)*

### **Bachelor of Information Technology**

University of Colombo School of Computing | *3rd Year (Reading)*

### **Comprehensive Master Java Developer (CMJD)**

Institute of Software Engineering ([IUSE](#)) | *Completed*

## TECHNICAL SKILLS

- Programming Languages & Frameworks
- Java (Core, Swing, FX, Multi-threading, Collections)
- Python (Currently Learning – Backend Development, Scripting)
- JavaScript (ES5, React, Node.js)
- HTML5, CSS3, Bootstrap, Tailwind, JavaFX, JFoenix
- Spring Boot (Backend, REST APIs, Web Services, Security)
- Hibernate ORM
- React (Frontend Development)

## Database Management & Tools

- **MySQL, JDBC** (Database Integration)
- **Database Management Systems (DBMS)**
- **Git, GitHub** (Version Control)

## Development Practices & Tools

- **Development Tools:** IntelliJ IDEA, NetBeans, VS Code
- **Design Patterns:** Singleton, Factory, DTO, DAO
- **Software Development:** Agile methodology, Object-Oriented Programming (OOP), MVC Architecture
- **Web Application Deployment:** Cloud deployment and hosting, Responsive web design

## PROJECTS

### Desktop Applications

#### Point of Sale System – V1

*Java 17 | Java Swing | MySQL | JDBC | MVC*

A desktop-based inventory and billing system supporting sales transactions, stock tracking, and CRUD operations with database integration.

#### Point of Sale System – V2

*Java 17 | JavaFX | JFoenix | Hibernate | MySQL*

Upgraded POS system with a sleek UI built using JavaFX and JFoenix, and optimized database interactions via Hibernate ORM, improving performance by 30%.

#### File Organizer with GUI

*Python | Tkinter | OS Module*

A smart desktop file management tool featuring drag-and-drop support, undo/redo functionality, animated progress bar, and light/dark theme switching.

## Full-Stack Web Applications

### **Online Book Store – Backend**

*Spring Boot | REST APIs | Spring Security | MySQL*

Backend system with secure API endpoints for user authentication and book management. Built with scalable architecture and clean code practices.

### **Online Book Store – Frontend**

*React | Bootstrap | JWT Authentication*

A responsive and user-friendly frontend that connects to the bookstore API, implements secure user sessions, and includes advanced state handling.

### **Hospital Management System (Ongoing)**

*React | Tailwind CSS | Flask (Python) | MySQL*

A modern hospital management platform with modules for doctors, patients, and appointments. Focus on responsive design, seamless CRUD flow, and future scalability.

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## Specialized Tools

### **Doctor Roster Generator – LRH Radiology**

*FastAPI | React | Tailwind | ICS Integration*

A custom-built doctor schedule generator for Lady Ridgeway Hospital. Skips weekends and holidays using Google Calendar ICS feeds, supports Excel export, and allows dynamic doctor input.

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## Mini Utilities

### **Random Password Generator**

*HTML | CSS | JavaScript*

A lightweight web tool to generate secure, customizable passwords with strength indicators. Built with usability and security in mind – great for educational demonstrations.

## PROFESSIONAL EXPERIENCE

### IT Tutor

*Self-Employed | Current*

- Conduct G.C.E. O/L and A/L ICT classes in both English and Sinhala mediums.
- Deliver lessons in English, Sinhala, and Tamil fluently, adapting teaching style to suit diverse student needs.
- Currently teaching both **individual and group classes**, as well as **online sessions**, to ensure flexible and accessible learning.
- Teach core ICT concepts and practical skills including programming and web development.
- Design custom lesson plans, practice exercises, and assessments to help students excel in both theory and practical components of the syllabus.
- Motivate and mentor students to develop technical competence, critical thinking, and exam confidence.

## REFERENCES



### Mr. A.W.M. Zuhree

CEO, The Insight Institute of Management and Technology

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### Mr. Issadeen Baseem

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