

# LEE YAN JIE

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## PROFILE

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Energetic software engineer with expertise in cloud-native computing and full-stack development. Skilled in designing scalable solutions using AWS, Python, and microservices architecture. Passionate about solving complex problems and contributing to impactful projects.

## CORE COMPETENCIES

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**Programming Languages** | Python, Java, TypeScript, JavaScript, HTML, CSS

**Databases & Frameworks** | MySQL, PostgreSQL, Angular, Spring Boot

**Cloud & DevOps** | AWS, Docker, Kubernetes, Jenkins, GitHub

**Testing & Quality** | JUnit, PyTest, Postman, SonarQube

**Methodologies** | Agile (Scrum, Kanban) Software Development

**Tools & Collaboration** | JIRA, Confluence, Swagger, Visual Paradigm, Microsoft Office Tools

**Languages** | English, Chinese, Malay

## WORK EXPERIENCE

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### Vodafone Ltd, Ireland

*Technical Lead (Graduate Trainee) | August 2024 - Present*

- **Optimized network infrastructure** by streamlining IP documentation, security zone configuration, and firewall rule approvals, ensuring compliance with security policies
- **Automated network operations workflows**, such as WOW Tickets & Firewall Comms Tracker, enhancing project visibility and cutting manual tracking efforts by 50% through scripting and process improvements
- Developed a **Tech Lead Dashboard**, integrating real-time monitoring and reporting to enhance network visibility and decision-making efficiency
- Collaborated with cross-functional teams (Amdocs, security, and cloud engineers) to design and deploy **scalable enterprise connectivity solutions**.
- Created a **Tech Lead Welcome Pack** on Confluence, streamlining onboarding and training for new team members, reducing coaching effort by 80%

### Theta Service Partner, Malaysia

*Full Stack Software Engineer (Intern) | October 2022 - August 2023*

- Developed and deployed RESTful APIs, integrating authentication, data validation, and business logic for a **Loan Origination System**.
- Worked with cloud infrastructure, assisting in deploying applications on **AWS** EC2, RDS, and S3, improving system scalability and reliability.
- **Configured CI/CD pipelines with GitHub Actions**, automating code deployment and reducing manual intervention.
- Implemented logging and monitoring using **Postman, SonarQube, and AWS** CloudWatch, improving debugging efficiency by 30%.
- Built a **Single-Page Application (SPA)** using **Angular & TypeScript**, enhancing frontend performance and user experience.
- Led API documentation efforts and created a **REST API training course** on Theta's Learning Platform, improving onboarding efficiency for junior developers

## PROFESSIONAL DEVELOPMENT

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**Cisco Certified Network Associate (CCNA) | In Progress, Expected Completion: August 2025**

**AWS Certified Solutions Architect - Associate | February 2025**

**Udemy Courses | Jan 2023 - June 2023**

- Angular - The Complete Guide (2023 Edition)
- Java Programming Masterclass (Updated to Java 17)

**AWS Academy Cloud Foundations | September 2022**

# EDUCATION

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## Technology University of the Shannon: Midlands, Ireland

*Master of Science in Software Design with Cloud Native Computing | September 2023 - August 2024*

**Achievement** | First Class Honours, Stage GPA: 77.08%

## Tunku Abdul Rahman University of Management and Technology, Malaysia

*Bachelor of Computer Science (Honours) in Software Engineering | June 2020 - May 2023*

**Achievement** | First Class Honours, CGPA: 3.9, TAR UMT Merit Full Scholarship Holder

## Tunku Abdul Rahman University of Management and Technology, Malaysia

*Foundation in Science | May 2019 - June 2020*

**Achievement** | First Class Honours, CGPA: 3.9, TAR UMT Merit Full Scholarship Holder

# PERSONAL PROJECT

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## Web-based Healthcare Appointment System | September 2024

- Built a cloud-based platform for patients to book, reschedule, and manage appointments with a responsive **Angular** and **TypeScript** interface
- Developed a **Spring Boot** backend written in **Java** with **PostgreSQL** that handles 1000+ daily appointment bookings, optimizing real-time scheduling, notifications, and provider availability management, reducing overbooking errors by 40%
- Deployed on **AWS**, ensuring 99.9% uptime and improving system's scalability, reliability and performance for 500+ active users (patients and providers) per month

## Facial Recognition Attendance Taking System | October 2022

- Built an application that allows students to take class attendance with personal faceprints while the staff may as well generate attendance code to mark attendance
- Improved the accuracy of the prototype by 10% through optimized **Machine Deep Learning-Based Model** with 1000+ test data images stored in the database
- Used **Python** language to build the application, used **Haar Cascade Classifier** and **Local Binary Patterns Histogram** algorithms for face detection to develop the prototype for research purposes
- Automated class attendance tracking by processing 50+ student check-ins, reducing manual processing time by 60%, and eliminating the need for paper-based attendance

## Human Resource Managing Website | September 2022

- Developed a system that provides people management by storing employee's information details in simple GUI using **HTML**, **CSS** and **JavaScript**
- Automated 95% of attendance tracking, reducing payroll processing errors by 70%.
- Decreased HR administrative workload by 50+ hours per month by replacing manual attendance tracking with a real-time **Python-based** check-in system.
- Integrated with **AWS** (EC2, S3, RDS, CloudWatch), handling 10,000+ employee records securely.

## Bus Express Ticketing System | September 2022

- Introduced a system which allows users to purchase tickets based on bus travel routes, departure time, and seat selection
- Optimized ticketing system for 5,000+ users, supporting multi-tier pricing for age-based fare categories.
- Programmed with **Java** language, later re-engineered with **ASP.NET** and **C#** to display the system with simple GUI instead, improving user satisfaction from 65% to 80% based on post-implementation surveys.

# INTEREST & ACTIVITIES

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**Tech & Business Engagement** | Retail Placements to gather customer insights for improvements

**Societies & Leadership** | Treasurer of the Chinese Society, organized Culture Day, managed stage performances, publicity, and ticket sales. Active in Leo Club, Math & Science Society, and E-Sport Society

**Volunteering** | Participated in beach cleaning, blood donation, charity fundraising, and Hi Digitals Volunteering (assisting the elderly with technology)

**Academic & Team Roles** | Served as Class Representative and Group Leader in projects, demonstrating leadership and teamwork