

LINGGES MUNIANDY

Software Engineering | Full-Stack Developer | Research & Development
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PROFESSIONAL SUMMARY

Software Engineering graduate from Universiti Sains Malaysia with a strong foundation in full-stack development and real-time systems. Gained hands-on industry experience as an R&D Software Engineering Intern at Keysight Technologies, delivering production-grade desktop software used in real environments. Holds a CGPA of 3.60 and a Yayasan Khazanah Scholarship. Seeking fresh graduate roles in software development and available from August 2026.

EDUCATION

Bachelor of Software Engineering with Honours

Universiti Sains Malaysia (USM), Penang

October 2022 – Present (Expected July 2026)

- **Scholarship:** Awarded Yayasan Khazanah Watan Scholar
- **Academic Awards:** 7x Dean's List Achiever (Year 1 Semester 1 to Year 4 Semester 1)
- **Current CGPA:** 3.60 (up to Year 4, Semester 1)

PROFESSIONAL EXPERIENCE

Software Engineering Intern - Research & Development

Keysight Technologies, Bayan Lepas, Penang

March 2025 – September 2025

- **UI Development:** Engineered production-grade Angular and Alloy interfaces for an Electron desktop platform, delivering a scalable multi-application management system with searchable, sortable, and metadata-rich views adopted by the R&D team
- **System Design:** Architected automated desktop app discovery logic to scan 100+ installations, extract EXE metadata and icons, and maintain accurate real-time synchronisation, reducing manual app management overhead by an estimated 60%
- **Quality Assurance:** Conducted manual and functional testing across application workflows, identifying 15+ edge cases before production release and ensuring consistent cross-platform performance
- **Process Automation:** Developed an internal scripting tool to automate repetitive deployment tasks, reducing manual setup time by 30% and improving overall team workflow efficiency

Operation & Analytics Intern

Mind Up, Malaysia

August 2023 – August 2024

- **Data Analysis:** Analysed workshop planning data to surface actionable insights, improving session efficiency and scheduling accuracy through structured data analysis techniques
- **Process Improvement:** Identified recurring inefficiencies in workshop scheduling patterns and proposed structured improvements that contributed to smoother session planning workflows

SKILLS AND CORE COMPETENCIES

Programming & Development | JavaScript, TypeScript, Python, Java, C#, C++, HTML, CSS

Frontend Development | React.js, Next.js, Angular, Tailwind CSS, Responsive UI Design

Backend & API Development | Node.js, Express.js, REST API Design, Authentication (JWT/OAuth), GraphQL

Databases & Data Management | PostgreSQL, MySQL, Firebase, SQL, Supabase, Neo4j

Cloud & DevOps | AWS, Microsoft Azure, Google Cloud Platform (GCP), Docker, CI/CD Pipelines, Git, GitHub

Tools & Methodologies | Electron, gRPC, Postman, Agile/Scrum, System Design, API Testing

Productivity Suites | Microsoft Office Suite (PowerPoint, Word, Excel) - Advanced

KEY PROJECTS

TutorLink - Intelligent Peer Tutoring Platform | Next.js • Supabase • PostgreSQL • Real-Time Messaging
Final Year Project (FYP) December 2025 - March 2026

- **Full-Stack Platform Architecture:** Engineered production-grade tutoring platform supporting real-time messaging, session coordination, and SOS workflows across multiple concurrent users with zero-downtime deployment
- **Multi-Factor Matching Engine:** Developed sophisticated matching algorithm pairing tutors and students based on availability, expertise, and feedback signals improving accuracy and user satisfaction
- **Quality Assurance:** Conducted comprehensive API and functional testing using Postman reducing system defects by 40% and ensuring high reliability before production deployment

Unibite - Campus Food Sharing Mobile App | Flutter • Firebase Realtime Database • Google Maps API
Academic Research Project October 2025 - December 2025

- **Real-Time Mobile Application:** Built cross-platform mobile app enabling students to share surplus food with instant messaging and geolocation-driven coordination
- **Geo-Location Integration:** Integrated Google Maps API for accurate location tracking and campus redistribution system reducing food waste and enhancing peer-to-peer accessibility

EchoMeet - AI Meeting Assistant | Next.js • TypeScript • Groq AI • LLaMa 3 • Tailwind CSS
Personal Project July 2025 - September 2025

- **AI-Powered Meeting Automation:** Built an AI meeting assistant that converts raw meeting notes into structured summaries, action items, decisions, open questions, and follow-up emails
- **LLM Integration:** Integrated Groq LLaMA 3 to generate fast, context-aware meeting outputs, reducing manual note-processing effort and improving post-meeting productivity

CERTIFICATIONS

AWS Cloud Practitioner Essentials | Amazon Web Services (AWS) April 2026
Lean Six Sigma White Belt | The Council for Six Sigma Certification (CSSC) April 2026
Graph Developer - Associate | Apollo GraphQL March 2026
Neo4j Certified Professional | Neo4j March 2026

LEADERSHIP EXPERIENCE

Vice Project Director, Varsity Hackathon 2024 (VHACK) USM
Universiti Sains Malaysia (USM), Penang Dec 2023 – May 2024

- **Event Leadership:** Co-directed Varsity Hackathon USM 2024, overseeing end-to-end event operations attracting 900+ participants and 250+ teams from 20+ countries, coordinating cross-functional committees to ensure seamless execution

President, Sekretariat Sukarelawan India (SSI) USM
Universiti Sains Malaysia (USM), Penang April 2024 – June 2025

- **Leadership & Operations:** Led a 100+ member volunteer organisation, overseeing day-to-day operations, coordinating 10+ community events, and securing 23+ sponsors and media partners through strategic outreach and consistent stakeholder engagement
- **Flagship Project Direction:** Served as Project Director for Charity Night, honouring 13 NGOs and successfully raising RM15,000 in donations distributed across all supported organisations