MUHAMMAD HAFIZ BIN KHAIRUL KAMAL

Software Engineering Undergraduate | Full-Stack Developer | Web & Mobile Enthusiast

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

SUMMARY:

High-achieving Software Engineering student (CGPA 3.92/4.00) with 2+ years of hands-on experience in full-stack development and proven competitive programming abilities. Specialized in building scalable web applications, mobile solutions, and RESTful APIs using modern frameworks including Django, Spring, React and Flutter. Proficient in Java, C++, Python, HTML, CSS, JavaScript, PHP, Dart, and SQL. Demonstrated leadership through hackathon victories and successfully managing client projects end-to-end.

Seeking 6-month industrial internship (August 2025 – February 2026) as a Software Engineer to contribute expertise in software development, user acceptance testing, and release management within an innovative company environment.

EDUCATION:

Bachelor of Computer Science (Software Engineering)
Universiti Teknologi Malaysia, Skudai | October 2022 - July 2026
CGPA: 3.92/4.00 | Dean's List Recipient
Relevant Coursework: Application Development, Data Structures & Algorithms, Requirements Engineering & Software Modeling, System Analysis & Design, Web Programming, Software Quality Assurance, Object Oriented Programming, Mobile Application Programming, Software Engineering, Internet Programming

Foundation in Science
Universiti Teknologi MARA, Dengkil | July 2020 - June 2021
CGPA: 4.00/4.00 | Perfect Academic Achievement

PROJECTS:

PlantLink Mobile Application
Technologies: Flutter, Django, MongoDB
- Built a mobile app version of PlantLink Web Application in a team-based setting to help farmers receive crop suggestions based on IoT sensor data.
- Architected backend services using Django REST Framework, implementing secure CRUD operations for sensor data management.
- Added social media integration (PlantFeed) enabling farmers to share agricultural insights and analytics
- Applied Agile Scrum methodologies with sprint planning and daily standups.

Coursemark Management Web Application
Technologies: PHP Slim Framework, Vue.js, MySQL
- Developed and integrated the Student Module in a full-featured academic performance management web application.
- Implemented secure student login using matric number and PIN, progress visualization, and "What-If" simulator for performance prediction.
- Used Vue.js for building dynamic and responsive user interfaces, and PHP Slim Framework for creating RESTful backend APIs.
- Collaborated with team members responsible for other modules, ensuring seamless data flow.

Testing using Katalon for WellCheck, Smart Health Monitoring System
Technologies: Katalon
- Spearheaded quality assurance efforts for the **Doctor Monitoring & Track module** of a Smart Health Monitoring System.
- Conducted comprehensive **automated testing using Katalon Studio**, ensuring robust functionality for viewing patient health status and managing prescriptions.

- Executed test cases for both normal and alternative flows, including "Doctor: Successful View of Patient's Health Status" and "Normal Flow Send Prescription and Diagnosis Ailments", identifying and documenting defects to improve system reliability.

ReportIt, a Hostel Damage Complaint Web Application
Technologies: HTML5, CSS3, Sass, JavaScript, PHP, MySQL
- Created a responsive web app using HTML, CSS, Sass, JavaScript, MySQL and PHP to digitize hostel damage reporting.
- Hosted online, which allows users to log complaints efficiently and track statuses of their submissions.

FitNest, a Fitness Mobile Application
Technologies: Flutter, Firebase
- Developed a comprehensive fitness tracking application with user authentication and data persistence.
- Implemented workout logging, nutrition tracking, and progress visualization features.
- Utilized MVVM architecture ensuring clean separation of concerns and testability.

LEADERSHIP & ACTIVITIES:

MATLAB Hackathon 2025: Runner-up
- Secured 2nd place in university-wide competition among 13+ participating teams.
- Developed real-time fitness monitoring system using MATLAB Online and Mobile platforms.
- Applied machine learning algorithms for location estimation based on sensor data.
- Conducted user testing with 10 participants, achieving 95% accuracy in location prediction.

EricssonEdge Academia Program: Top 500
- Selected from thousands of applicants across 9 Asia-Pacific countries for a prestigious 6-month program aimed to accelerate students' early career development in the tech industry.
- Gained industry expertise in 5G technology, AI/ML applications, and telecommunications automation.
- Completed specialized training in emerging technologies and professional development.

COMPFAIR 2024 : Coding Competition Runner-up
- Achieved 2nd place in a competitive programming contest demonstrating algorithmic skills.
- Solved complex data structure and algorithm challenges under strict time constraints.
- Showcased proficiency in C++ optimization and competitive programming techniques.

OPEN DAY RESAK 2023 2.0: Activity Unit
- Successfully led the OPERA Game Night event, attracting over 150 attendees by coordinating classic party games such as Musical Chairs, Werewolf, and UNO.
- Took charge in designing and distributing visually appealing marketing posters to boost visibility, while also managing a photo booth to enhance participant engagement and create lasting memories.

WORK EXPERIENCE:

Freelance Digital Artist
Freelance | October 2023 - November 2024
- Designed custom artwork for clients using Procreate and Clip Studio Paint. Managed commissions, delivering over 20 digital pieces with positive feedback.
- Managed client-based digital projects end-to-end, from requirements gathering to final delivery.
- Demonstrated strong communication, and creative problem-solving skills.

SKILLS:

- **Languages:** Java, C++, Python, Dart, PHP, JavaScript, HTML5/CSS3, SQL.
- **Frameworks & Tools:** Vue.js, React.js, Django, Flutter, Node.js, Spring Boot, Sass, TailwindCSS.
- **Databases:** MySQL, MongoDB, Firestore.
- **Dev Tools:** Git/GitHub, VS Code, Android Studio, AWS, JIRA, Spring Tool Suite, Katalon.
- **Practices:** RESTful APIs, Agile/Scrum, UML, SRS/SDD/STD documentation, Software Testing.
- **Collaboration & Leadership:** Agile/Scrum Workflow, Version Control with Git.
- **Professional Attributes:** Fast Learner, Detail-Oriented, Strong Time Management, Critical Thinking, Open to Feedback, Creative Problem Solving.