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Summary

Software Engineering graduate from Universiti Tenaga Nasional (UNITEN) with hands-on experience in front-end and full-stack web development. Experienced in building responsive web applications using React, JavaScript, TypeScript, HTML, CSS, and REST APIs, with practical experience delivering websites and digital solutions for small business clients from requirement gathering through deployment. Previously completed the Protégé Programme at Permodalan Nasional Berhad (PNB), gaining exposure to digital transformation initiatives, cross-functional collaboration, and Agile project delivery. Passionate about creating user-friendly digital experiences and continuously improving modern web and mobile applications.

Competencies & Technical Skills

Programming: JavaScript, TypeScript, NodeJS, HTML5, CSS3, PHP, SQL, C++, Java, Python.
Libraries & Frameworks: Laravel, NestJS, ExpressJs, React, React Native,REST APIs, Bootstrap, Tailwind.
Database: MySQL, PostgreSQL, Firebase, Microsoft Access.
Tools: Git, GitHub Firebase, Microsoft Access, MySQL, Postman, Docker, DBeaver, Power BI.
Development Practices: Responsive Web Design, API Integration, User Acceptance Testing (UAT), Agile, SDLC.

Working Experience

MTechnix Sdn Bhd
Software Engineer – K- Youth Programme *August 2026 – Present*

- Developed full-stack web applications for clients, managing the end-to-end software development lifecycle from requirements gathering and analysis to development and deployment.
- Conducted meetings with clients to gather business requirements, understand user needs, and translate them into clear functional specifications.
- Collaborated closely with clients through iterative discussions to refine requirements, clarify feature specifications, and ensure the developed solutions aligned with their expectations.
- Designed and developed full-stack web applications using React, Express.js, and PostgreSQL to deliver functional and user-friendly solutions.
- Managed application deployment using Microsoft Azure, ensuring completed applications were deployed and validated before delivery to clients.
- Coordinated with clients throughout the development process to validate implemented features and ensure the final solution met the agreed requirements.

Permodalan Nasional Berhad
Protégé Get-MySTEP Programme – Project Management Officer *Dec 2025 – August 2026*

- Supported the HIMAYA Cybersecurity Transformation Programme within the Tech & Cyber Risk Department, collaborating across business and technology teams.
- Developed Power BI dashboards to visualize programme progress and improve reporting for stakeholders.
- Coordinated project deliverables and tracked implementation progress across multiple teams using Agile project management practices.
- Worked closely with internal stakeholders and external partners (KPMG), strengthening communication and cross-functional collaboration skills.

Freelance
Software Developer *March 2026 – Present*

- Developed responsive websites and web solutions for small businesses based on their business needs and requirements.
- Built reusable UI components and implemented responsive layouts optimized for desktop and mobile devices.
- Integrated front-end applications with REST APIs and backend services to deliver dynamic, data-driven

user experiences.

- Worked directly with clients to gather requirements, translate business needs into technical solutions and iterate features based on feedback.
- Conducted User Acceptance Testing (UAT), fixed bugs and deployed completed applications to production environments.

Telekom Research & Development
Backend Developer Intern *July 2025 – September 2025*

- Developed and maintained REST APIs using NestJS for enterprise applications.
- Collaborated with front-end developers to support API integration and application functionality.
- Used Git for version control, resolved merge conflicts and supported deployment to the staging environment.
- Improved API performance and reduced code issues identified by SonarQube.

Education

UNIVERSITI TENAGA NASIONAL Kajang, Selangor
BCS (Hons.) Computer Science (Software Eng) *Sept 2022 – Sept 2025*
CGPA: 3.56
Awards:

- Dean's List Awardee for 4 Semesters

Coursework: C/C++ Programming. Object-Oriented Programming. Advanced Web Application Development. Mobile Application Development. Data Structure and Algorithm. Database. Data Communication and Networks. Artificial Intelligence. Parallel Computing. Digital Design and Microprocessor System

UNIVERSITI TENAGA NASIONAL Kajang, Selangor
Foundation in Computer Science *Sept 2021 – Sept 2022*
CGPA: 3.89
Coursework: Fundamentals of Data and Information, Calculus in Computing, Physics in Computing.

Projects

FocusPro – Web-Based Productivity & Time Management Application (FYP) May 2025

- Developed a full-stack web application using Laravel, MySQL, and Firebase.
- Designed and implemented features including:
  - Task Management (create, edit, prioritize, track tasks).
  - Pomodoro Focus Sessions with distraction-blocking for websites.
  - Productivity Analytics Dashboard with charts and downloadable reports.
- Built responsive user interface for both users and admin panel (account management, system logs).
- Conducted requirement analysis through user surveys (60+ responses) to ensure user-centered design.
- Overcame challenges in time-tracking accuracy, website blocking within browser limits, and intuitive UX design.
- Delivered a reliable, user-friendly system aimed at students, freelancers, and professionals seeking productivity improvement.

AquaBoost – Daily Hydration Tracker App June 2026

- Developed a simple mobile application using .NET framework connected to Firebase for real-time data storage.
- Designed for users to set daily water intake goals, log water consumption, and track progress throughout the day.
- Implemented input–process–output flow where each drink entry updates the remaining daily water target automatically.
- Included a tracking page to review daily hydration history and promote consistent water intake habits.
- Currently expanding mobile development skills by learning React Native and TypeScript.

Student Depression Prediction – Machine Learning Project April 2025

- Built a machine learning model to predict student depression using a dataset of 27,901 records with 18 features (academic, lifestyle, psychological factors).
- Performed data preprocessing including missing value handling, label/one-hot encoding, and train-test split (80/20).
- Implemented and compared Logistic Regression, Decision Tree, and K-Nearest Neighbors (KNN) for binary classification.
- Achieved 83.66% accuracy with Logistic Regression, identified as the best-performing model for balanced precision/recall.
- Provided recommendations for future improvement including ensemble methods (Random Forest, Gradient Boosting) and feature engineering.

What's Cooking – Recipe Recommendation App June 2025

- Developed a simple web application where users can input food ingredients and receive suggested dishes.
- Integrated Gemini 2.5 Flash API to generate recipe suggestions dynamically.

- Built with NestJS (backend) and Angular (frontend) to explore full-stack development.
- Focused on hands-on learning of API integration, backend-frontend communication, and user interaction.

YumeFind – Anime Search Website Nov 2025

- Built a responsive React application using component-based architecture and React Hooks.
- Integrated the open-source Jikan REST API to fetch and display real-time anime information.
- Implemented search, routing, state management, loading states, and responsive UI design.

Paw & Preferences – Cat Swiping Preference App Nov 2025

- Developed an interactive web application using React, that displays cat images and allows users to like or dislike each picture using swipe-style interactions inspired by modern dating apps.
- Integrated the open-source CATAAS API to fetch cat images dynamically in real time.
- Implemented smooth swipe gesture functionality to enhance user experience and engagement.
- Focused on learning API integration, event handling, and component-driven UI development in React.

Extracurricular Activities

Mega Fitness Carnival UNITEN 2023
Committee *August 2023*

- Successfully coordinated the registration process, efficiently managing participant sign-ups and distribution of curriculum points (SCORUN).
- Contributed to the overall success of the event by ensuring a smooth and well-organized registration and accreditation process, through efficient use of QR code for registration.

Reference

Ts. Zailani Bt Ibrahim
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Department of Computing (CCI) UNITEN,
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