

David Dew Mallick

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SUMMARY

Backend Software Engineer with experience building AI-driven SaaS infrastructure end-to-end, from containerized deployment pipelines to keyword acquisition and billing systems. Proficient in PHP/Laravel and React, with hands-on AWS experience across ECS Fargate, SQS, Redis, and Route 53. Track record of measurable impact: cut AI-generation failure rates to 5%, reduced API costs by 95%, and improved page load times by 70% through targeted architecture and query optimization.

TECHNICAL SKILLS

- **Languages & Frameworks:** PHP (Laravel), JavaScript, React, Next.js, Node.js
- **Cloud & Infrastructure:** AWS (ECS Fargate, SQS, Route 53, Redis), Docker
- **Databases:** SQL
- **Practices:** Agile, REST API Design

EDUCATION

- **BRAC University** Dhaka, Bangladesh
Bachelor of Science in Computer Science & Engineering; CGPA: 3.55/4.00 Aug 2018 - Dec 2022

EXPERIENCE

- **JB Connect Ltd.** Banani, Dhaka, Bangladesh
Software Engineer Oct 2024 - Present
 - **BridgeBooks System - SEO:** A platform for AI-driven SEO enhancement, including article generation, backlink acquisition, and contact form automation
 - Engineered an AI article generation module from inception over eight weeks with two other engineers on the same team.
 - Transitioned article generation from AWS Lambda to containerized deployment, reducing failure rates to 5% within three weeks
 - Optimized API interactions with AI models, achieving 95% cost savings
 - Enhanced query performance via SQL tuning, improving page load times by 70%
 - Developed a keyword acquisition system delivering real-time SEO-friendly keywords via multi-layered filtering
 - Built a backlink acquisition system integrating third-party services for link gathering, email reply monitoring for status updates, and AWS Route 53 configuration for inbound response handling
 - Built a WordPress integration for automated direct publishing, extending support to additional CMS platforms
 - Developed an AI image generation pipeline producing highly detailed images in under 40 seconds for article content
 - Built a Japanese-to-English translation pipeline for article content
 - Developed a containerized Selenium-based form-submission system with bot-detection avoidance and IP rotation, running 150 concurrent submissions unattended
- **technoPLUS IT** Adelaide, South Australia (Remote)
Full Stack Web Developer Sep 2024 - Mar 2025
 - **eduKET - LMS:** A comprehensive platform for educational administration and resource management
 - Developed modules for assigning courses to students and classes, incorporating validation to confirm instructor availability
 - Implemented functionality for instructors to upload course materials, ensuring accessibility and usability for students, while modifying database tables to support seamless integration of legacy and new features.
- **Kandari Technologies** Mirpur, Dhaka, Bangladesh
Software Engineer Mar 2023 - Sep 2024
Trainee Web Developer Apr 2022 - Mar 2023
 - **Maison Ensemble:** A French language learning platform providing interactive tools for multilingual education
 - Designed 12 interactive exercises and games to foster memory and language acquisition from Dutch to French
 - Integrated video-based learning modules with embedded quizzes for enhanced comprehension

PUBLICATIONS

- **SweetCoat-2D: Two-Dimensional Bangla Spelling Correction and Suggestion Using Levenshtein Edit Distance and String Matching Algorithm:** IEEE, Aug 2023
- **An Efficient Text Preprocessing and Classification Technique for Multilingual and Transliterated Data:** IEEE, Mar 2023