David Dew Mallick
Software Engineer@JB Connect Ltd

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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 other two members of 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 through multi-layered filtering to facilitate article generation and enhance website visibility
  - Implemented a credit-based billing system associating services with credits, with dynamic consumption tracking based on platform utilization
  - Optimized download and upload CSV queue jobs with file-based storage and automatic unlinking after finalization to minimize server memory usage.
  - 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

technoPLUS IT
Adelaide, South Australia
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
  - Modified 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
  - Built achievement systems to track and reward user progress through exercises
- **Augmenta Education**: An educational management platform for student administration, scheduling, and financial tracking
  - Designed student ID cards with integrated unique barcode generation for enhanced security and identification
  - Implemented schedule-based class assignment system to align student enrollments with instructor availability
  - Developed payment slip issuance module linked to student IDs, incorporating automated credit deduction upon generation
  - Enhanced class routine module with PDF generation and download features for streamlined distribution
- **KIMS**: An inventory management system handling products, categories, brands, units, suppliers, purchases, orders, customers, and sales
  - Delivered end-to-end coverage of inventory operations for efficient business oversight

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

Programming Skills

- **Languages & Frameworks**: JavaScript, React, Next.js, PHP, Laravel   **Methodologies**: Agile