ABDOON NUR

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FULL STACK SOFTWARE ENGINEER

Experienced Full Stack Software Engineer with over 10 years of experience. Skilled in developing and architecting complex software systems across various domains such as eCommerce, Health Care, Banking, Aquaculture, Financial, Inventory and Freight, while following Agile (Scrum) methodology. Known for critical thinking and complex problem-solving abilities. Highly proficient in backend technologies including PHP (Laravel, WordPress) and as well as frontend technologies like JavaScript (ReactJS, jQuery). Experienced in using DevOps tools such as Docker, Kubernetes and well-versed in cloud technologies, including AWS (Lambda, Fargate, App Runner, ECS, EC2, ECR, S3, RDS) and Google Cloud Platform (Cloud VM, Cloud Build, Cloud Run, Cloud SQL).

Object Oriented Programming • Frontend & Backend • Application System Design • Database Design
Cloud Infrastructure • CI/CD • Containerization • Design Patterns

Languages: PHP, JavaScript
Frameworks: Laravel, ReactJS, Bootstrap
CMS: WordPress
Databases: MySQL, PostgreSQL
Web: HTML, CSS, JSON, WebSocket, HTTP
Web Services: REST, SOAP
Web/App Servers: Apache, Nginx
Design Patterns: Repository, Proxy, Prototype, Singleton, Observer, Factory, Abstract Factory, State, Facade, Template
Tools: JIRA, Trello, Jenkins, Docker, Kubernetes, Postman, Slack, AWS, Google Cloud Platform, Git, GitHub, PhpStorm, VSCode, FTP, cPanel, pgAdmin, MySQL Workbench
Platforms: MacOS, Linux, Windows

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

TEKNORDIC, Dhaka, Bangladesh • 02/2019 – 01/2024

Lead Software Engineer (01/2020-01/2024)
Full stack development and technical lead to a team of software engineers

- Implemented a Single Sign-On (SSO) module using the Auth0 library with **PHP, Laravel**, and **ReactJS**, enabling customers to conveniently sign-in once and access all products, leading to an increase in company sales.
- Integrated PayPal and Stripe payment processors into **PHP** and **Laravel** based application, ensuring secure transactions, compliance with regulatory standards, and secure user data management, while effectively handling critical errors.
- Developed payment gateway services and logic, including transaction initiation, handling callbacks/webhooks, and updating transaction statuses using **Laravel's** service provider & service container dependency injection.
- Created complex interactive forms and statistical report views (bar charts, pie charts, line charts, histograms, tabular views) in **ReactJS**, leveraging **Redux**, **Recharts**, the virtual DOM, component-based architecture, and custom hooks, improving frontend performance and response time.
- Applied various database optimization techniques such as **Laravel** chunk, eager loading, load balancing, database indexing, caching, DB profiling, partitioning, sharding, and horizontal scaling to enhance the application's scalability.
- Developed a module to convert complex biological calculations from a Microsoft Excel engine to a **PHP** Object-Oriented Approach, utilizing various design patterns, resolving the issue of sharing private Excel files on the production server.
- Integrated sending real-time notifications using **Laravel** event/listener, event broadcasting, **ReactJS**, **Laravel** Echo, Pusher IO, and Redis, leveraging pub/sub capabilities, resulting in a 15% faster notification delivery with no data loss.

Senior Software Engineer (02/2019-01/2020)

- Developed and maintained a Kafka messaging system in a **Laravel** application within the payment processing system, achieving a more resilient, scalable, and decoupled architecture capable of efficiently handling high transaction volumes and providing real-time processing capabilities.
- Built a real-time video appointment system using the **JavaScript**-based third party Vydio.io library and an appointment scheduling system by defining **Eloquent** models with proper relationships, validation rules, and business logic to handle time zones, prevent overlaps, and manage cancellations.
- Utilized Laravel Echo and broadcasting to provide real-time updates on appointment statuses, integrated with external calendars using APIs to sync appointments, and added unit testing to handle edge cases and ensure reliability, resulting in accurate handling of time zone differences, management of overlapping appointments, and real-time availability updates.
- Implemented unit testing using **PEST** (PHP) and incorporated integration testing into the development workflow, ensuring early detection of errors, increasing code coverage from 60% to 95%, significantly reduced production bugs, and improved overall software reliability.

Technologies Used: *PHP, Laravel, ReactJS, Redux, jQuery, Laravel echo, Pusher IO, JUnit, PEST, Bootstrap 5, MySQL, PostgreSQL, AWS, GCP*

AUS-BANGLA COMMUNICATIONS LTD., Dhaka, Bangladesh • 05/2016 – 01/2019

Senior Software Engineer

Development of high-performance applications, writing complex coding logic with enforcing SOLID principles, mentor junior developers, and ensure robust, scalable code solutions.

- Collaborated closely with the team lead and other software engineers, contributing to the development of complex programming logic and innovative ideas.
- Integrated real-time notification and doctor-patient chat systems using **Spring Boot**, **Spring Data JPA**, **ReactJS**, and Firebase, establishing a WebSocket connection to the Spring Boot backend to handle incoming and outgoing messages, updating the UI in real-time.
- Built an e-Prescription module with an interactive autocomplete search for a large drug list using **Spring Data JPA**, database indexing, debounce utility (lodash), and asynchronous calls (axios), rendering the resulting list 20% faster than traditional search methods.
- Developed an authentication module using **Laravel** custom Middleware and Service Provider with JWT, transitioning from session-based stateful authentication, enhancing security, simplified horizontal scaling, reduced server memory usage, and allowed authentication across different domains and services.
- Integrated third-party services like Payment Gateway, Email, and SMS using **Laravel** Custom Service Provider, achieving more modularized and organized services, a cleaner codebase, and enhanced maintainability and scalability.
- Implemented an SMS Gateway with **Twilio** provider in a **Laravel**-based eCommerce platform, for a better performance and handling large volumes of SMS, utilized Laravel's queue/dispatch system and implemented rate limiting to avoid sending too many SMS messages in a short period, preventing throttling and additional costs.

Technologies Used: *Java, Spring Boot, PHP, Laravel, ReactJS, jQuery, PostgreSQL, JUnit, Bootstrap 4, AWS*

GRAMEEN SOLUTIONS LTD., Dhaka, Bangladesh • 05/2015 – 04/2016

Software Engineer

Develop and writing rebust code for business logic, various component, and financial module.

- Designed and implemented a foreign remittance system in **Java (Spring Boot),** increasing customer satisfaction, migrating legacy banking applications to a modern cloud infrastructure, improving performance and scalability while reducing operational costs significantly.
- Improved transaction processing efficiency by optimizing database queries, resulting in a 30% increase in transaction speed and a smoother customer experience.
- Developed a SOAP-based API to connect the core banking Finacle software with exchange company transactions, using SOAP's built-in support for WS-Security and error handling, the system became more secure and easier to troubleshoot communication issues.
- Built various modules in a **PHP** (**Laravel)** based project including Search, Request Management, Employee Requisition, and Reporting, conducting database design and optimized queries to retrieve expected data efficiently.

Technologies Used: *PHP, Laravel, Java, Spring Boot, jQuery, Bootstrap, MySQL*

XPERT WEB WORK, Dhaka, Bangladesh • 01/2008 – 04/2015
Software Engineer
- Coded nearly 75% of functions and modules for a freight portal, including reporting, shipment processing, reconciliation, and access control list, significantly contributing to the project's overall functionality.
- Programmed a lot of object-oriented classes maintain **SOLID** and **DRY** principals, implemented various design patterns where needed in **Laravel** framework for the backend, enhancing the application's usability and modularity.
- Took responsibility for fixing all UI and functional bugs reported by the client, ensuring a seamless user experience, and maintaining high client satisfaction.
- Developed several components and modules for various SOAP-based and **RESTful API** web services, including payment gateways, shipping rates, and shipment tracking, enhancing the system's interoperability and functionality.
- Worked extensively on various **JavaScript** event-related logic, making the applications more interactive and shareable across different modules.
- Worked on attractive front-end features with JavaScript/**jQuery**, such as login/registration, parallax scrolling, multi-image upload with drag-and-drop, and quick actions like favorites, recent views, and recent searches, improving user engagement and experience.
- Worked on CSS and Bootstrap to make the entire site responsive across all devices, ensuring a consistent user experience on mobile, tablet, and desktop.
- Built numerous custom plugins, themes and hook function in **WordPress** to achieve specific functional results, implemented WooCommerce with a custom third-party local checkout process, and integrated the Redux library for custom option pages in WordPress sites, enhancing the site's e-commerce capabilities.

Technologies Used: *PHP, Laravel, JavaScript, jQuery, MySql, CSS, WordPress, WooCommerce, Bootstrap 3/4, cPanel, FTP, VPS*

ACADEMIC PROJECTS

Maharishi International University (2024) Mini Online eCommerce Shop: This project mainly focused on creating a comprehensive fast eCommerce solution, development involved - managing product catalogs, user accounts, reviews, order processing and payment system. UX/ UI has been developed with ReactJS, React Hooks and Redux. Backend Developed by Spring Boot, Spring Data JPA, Hibernate, PostgreSQL.

Maharishi International University (2024) Flight Booking System: This project involved developing a robust flight booking platform, enabling users to search, compare, and book flights efficiently. Core features included comprehensive flight search with advanced filters, seamless booking including both oneway and round trip, and stripe credit card payment processing, secure user management, and real-time flight status updates. Technologies used ReactJS for a dynamic frontend and Spring Boot for a scalable backend.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 10/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Programming, Software Engineering, Web Application Architecture, Enterprise Architecture

Bachelor in Computer Science 4/2007
Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh