Md Fuad Hasan

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FULL STACK DEVELOPER

I am a computer science professional over **4 years of experience** in **HTML, CSS, JavaScript, PHP and Python**. I have knowledge of popular frameworks such as **Laravel, Next.js, FastAPI** and experience with **REST APIs**. I have worked with architectural patterns like **MVC, MVP, Microservices** and **Serverless**. Additionally, I have experience with **Kotlin** as an android app developer, which has further enhanced my versatility in software development.

TECHNICAL SKILLS

Languages	:	JavaScript, PHP, HTML, CSS/SCSS, Python, Java, Kotlin
Frameworks	:	Laravel, Next.js, React.js, Express.js, Node.js, FastAPI, TailwindCSS
Libraries	:	Material, Flowbite, Selenium, SQL Alchemy, JWT, Bcrypt, PHPUnit, Junit, Espresso
Databases	:	MySQL, MongoDB, CF D1, CF KV, FireStore
DevOps	:	Github Actions, Docker
Technologies	:	AWS EC2, Apache, Nginx, Caddy, CF Workers, CF Pages, CF Access, Vercel, Linux, cPanel

EXPERIENCE

Full Stack Web Developer   May 2023 – Present
Tekinouchi   *Remote – Dhaka, Bangladesh*

- Maintained strong skill set in various technologies to update, optimize and rectify issues with corporate website
- Maintained version control systems such as **Git** in order to keep track of changes made to the source code
- Provided technical support and troubleshooting services when needed
- Designed creative user interfaces for websites with a focus on usability
- Developed, tested and debugged web applications using **HTML5, CSS3, JS and Laravel**
- Modified existing WordPress plugin or theme to add functionality
- Configured databases such as **MySQL** in order to store data securely
- Integrated **third-party APIs** into web applications for enhanced functionality

Frontend Web Developer   Apr 2023 – Jul 2023
Fiver

- Specialized in crafting custom WordPress dashboards to match client requirements using **ACF, UiPress**
- Worked on designing tailored widgets in a custom dashboard using **HTML, CSS, JS and Wordpress Hooks**
- Skilled in optimizing dashboard usability and efficiency
- Troubleshot and **fixed bugs** and issues in the backend

Self-Employed   Feb 2019 – Jul 2023
Wordpress Content Creator/Developer

- Delivered high-quality, insightful, informative, and entertaining written content
- Set up the hosting environment in **AWS EC2, Lightsail** and custom **cpanel hostings**
- Implemented automated scraping using **Selenium** python library and published content using **wordpress REST API**

EDUCATION

Brac University   **CGPA: 3.82**
Bachelor of Science in Computer Science   *Jan 2020 – Jun 2024*

PUBLICATIONS

Dynamic Authentication Protocols for Advanced Security in Federated Metaverse Systems *(In progress)* **NSysS 2024**

PROJECTS

Clinique Accounts Management Web App   *Node.js, Express.js, HTML, CSS*   Live

- **CRUD** based operations on **MySQL** exposed using a **RESTful API** made with **Node.js**
- Exposed POST, GET, PATCH and DELETE HTTP methods using **Express**
- Developed efficient patient management system for adding and adjusting patient information
- Automated calculation of different fees, income, expenditure for each department
- Designed a user-friendly interface for outside patients to select pathology tests
- Ensured compliance with web security best practices, including **CSRF protection** and **role-based access control**
- Created admin dashboard for comprehensive income and expenditure overview

Vehicle Accessories Inventory Shop   *Laravel, TailwindCSS, MySQL, Flowbite, Faker*   Source Code

- Developed using **Laravel, MySQL** and **Tailwind CSS**, ensuring a robust backend with a modern, responsive frontend.
- Includes real-time inventory tracking, advanced search functionalities, and user-friendly interfaces.
- Implemented secure user authentication and authorization systems, including **role-based access control**.
- Created an intuitive shopping cart and checkout process, ensuring a smooth user experience.
- Managed product catalog and inventory using Laravel's **Eloquent ORM** and **database migrations**.
- Implemented advanced search and filtering functionalities for products.
- Developed an admin panel with **CRUD operations** for managing products, orders, and customer data.
- Compliance with web security best practices, including **CSRF protection** and **input validation** using **middleware**.
- Used **Faker** library to add dummy data.

PocketKaraoke   *Kotlin, Firebase, MVP, Instrumented Tests*   Source Code

- Developed an android app using Kotlin and **MVP architecture**.
- Implemented **Firebase Authentication** and utilized **FireStore** for online database
- Implemented sing-along feature with real-time lyrics
- Integrated performance-based scoring system
- Created real-time frequency graph
- Added audio effects (reverb, echo, pitch change)
- Enabled sing-off challenges with friends
- Conducted **Instrumented Tests** for robust app performance

Furnicraftbd   *Bootstrap, Serverless*   Live

- Designed and developed a clean and modern portfolio using **HTML, CSS, JS** on **Bootstrap** framework
- Optimized website for **speed and user experience**
- Utilized **responsive design** to ensure compatibility across all devices
- Deployed on GitHub pages via **GitHub Actions**

Federated Metaverse Dynamic Authentication   *Fast API, SQL Alchemy, JWT, PKA*   Source Code

- Developed a dynamic authentication model for the Federated Metaverse to authenticate users across servers
- Implemented servers using Python FAST API following **Model-Controller-Service** along with **Pydantic Schema**
- Designed and managed separate MySQL databases for server authentications and userdata
- Utilized **RS256 key pairs for JWT tokens** for secure user authentication
- Executed cryptographic challenge-response mechanisms with **PKA** for user login and verification
- Implemented secure mode and device integrity checks for authentication requests
- Enabled token-based access to metaworlds with mechanisms for **JWT token renewal and management**
- Ensured robust and versatile authentication while supporting various algorithms based on requirements

LANGUAGES

Bangla

Native

English

Professional