RATNAKANTHAN

PHP FULL STACK DEVELOPER

//PHP Full Stack //Laravel //Magento 2 //OOP

PERSONAL DETAILS

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AWARDS

INSPIRING CREATIVITY AWARD
Presented by Fujitsu Laboratories of Europe

@ at Queen Elizabeth II Conference Centre, Westminster

AREAS OF EXPERTISE

BACK-END DEVELOPMENT

- **PHP Frameworks:** Extensive experience with Laravel for developing robust and scalable web applications.

- **Database Management:** Proficient in designing and managing relational databases using MySQL, PostgreSQL, and SQLite.

- **API Development:** Skilled in creating and integrating RESTful APIs and web services to facilitate seamless communication between applications.

- **Server-Side Logic:** Strong understanding of server-side logic and algorithms, ensuring efficient data processing and storage.

- **Authentication & Authorisation:** Implementing secure authentication and authorisation mechanisms using OAuth and session management.

- **Data Modelling:** Expertise in data modelling, schema design, and optimisation for efficient database performance.

- **Caching Strategies:** Knowledgeable in caching strategies and technologies such as Redis and Memcached to enhance application performance.

PROFILE

Inspiring Creativity Award winning PHP Full Stack Developer with a first-class degree in Computer Science and over 14 years of professional experience. Began career specialising in object-oriented programming with PHP and Magento 2, before transitioning to focus on the Laravel framework. Proven ability to develop robust, scalable web applications and deliver high-quality solutions. Adept at working across the full technology stack, with expertise in front-end technologies, back-end development, and database management. A proactive and innovative problem solver, committed to continuous learning and professional development to stay ahead in the dynamic tech industry.

ACADEMIC QUALIFICATIONS

UNDERGRADUATE
- BSc (Hons) Technology & E-commerce University of East London.
- (BCS) British Computer Society Professional Graduate.

CERTIFICATION
- Google certified Digital Marketing
- Certificate in PHP (with Distinction)
- Certificate in MySQL (with Merit)

ADMINISTRATION
- Network Administration
- Linux Network Administration
- Data Communication and Computer Networking - University of Colombo.
- Database Management Systems ORACLE 8i

DIPLOMA
- Diploma in Computer Studies.

TRAINING PROGRAM
- Sun Certified Java Programmer Training Program

WORK EXPERIENCE

FULL STACK DEVELOPER

Merck & Co., Inc (MSD) / Cambridge / 2021 – Present.

I have extensive experience maintaining and enhancing an e-commerce platform using PHP Laravel. My role involved developing and managing multiple APIs to ensure seamless integration with various third-party services and front-end applications. I successfully implemented multi-language and multi-country functionalities to cater to a diverse global user base, leveraging Laravel's powerful localisation features. By optimising backend processes and employing efficient caching strategies, I significantly improved the platform's performance.

My responsibilities also included ensuring the platform's security and compliance with industry standards, conducting regular audits, and collaborating closely with cross-functional teams to deliver a robust and user-friendly e-commerce experience.

- Implemented new features such as fulfilment, shipping service, onepage checkout, and payment gateway integrations

- Created and maintained RESTful APIs to support the e-commerce platform and facilitate third-party integrations.

- Developed country-specific functionalities, such as currency conversions, tax calculations, and compliance with local regulations.

- Enhanced the platform's performance by optimising database queries, implementing caching strategies with Redis, and using efficient backend processes.

AREAS OF EXPERTIS...

- **Error Handling & Logging**: Implementing robust error handling and logging mechanisms to maintain application stability and facilitate debugging.

- **Third-Party Integrations:** Integrating third-party services and APIs, including payment gateways, social media logins, and cloud storage.

- **Microservices Architecture:** Familiar with microservices architecture and designing applications for scalability and maintainability.

- **Security Best Practises**: Ensuring back-end security by following best practises for input validation, data encryption, and secure coding standards.

- **Version Control Systems**: Proficient in using version control systems like Git for code management and collaboration.

- **CI/CD**: Knowledgeable in DevOps practises, including Continuous Integration/Continuous Deployment (CI/CD) pipelines

FRONT-END DEVELOPMENT:

- **HTML5 & CSS3**: Proficient in crafting semantic, responsive, and accessible web pages using HTML5 and CSS3.

- **JavaScript & Frameworks**: Strong skills in JavaScript, with experience in frameworks and libraries like jQuery.

- **Responsive Design**: Expertise in creating responsive designs using CSS frameworks like Bootstrap, and Foundation, ensuring compatibility across various devices and screen sizes.

- **CSS Preprocessors**: Experienced with CSS preprocessors such as SASS and LESS for more efficient and maintainable stylesheets.

- **Cross-Browser Compatibility**: Ensuring consistent look and feel across different browsers and platforms by following cross-browser compatibility best practises.

- **UI/UX Design**: Understanding of user interface (UI) and user experience (UX) principles, with the ability to design intuitive and user-friendly interfaces.

WORK EXPERIENCE…

FULL STACK DEVELOPER

Feedzon Limited (Antiquity Software)   2017 Oct to 2021 Oct

I have successfully integrated FileMaker with Magento 2 through robust API integration, ensuring seamless data synchronisation and enhanced operational efficiency. My expertise extends to customising the Magento 2 Admin console to provide a tailored and intuitive user experience for administrative tasks.

Additionally, I have developed and maintained a sophisticated multitenancy e-commerce platform, enabling multiple tenants to operate independently while sharing common resources. My work has involved ensuring high performance, scalability, and security, while also implementing multi-language and multi-country features to cater to a diverse user base.

ECOMMERCE DEVELOPMENT MANAGER

Nasco Global Ltd / RedLett 2015 – 2017

I have led multiple projects focusing on API integration and development, notably integrating Google Shopping (Google Feed) to boost product visibility and sales. I developed automated scripting for product publishing from IceCAT, which streamlined the updating process and improved data accuracy.

Additionally, I created and maintained data feeds for the affiliate window e-commerce platform, enhancing the efficiency and performance of affiliate marketing campaigns. In my role as an E-commerce Manager, I have implemented comprehensive digital marketing strategies, including Search Engine Optimisation (SEO), Pay-Per-Click (PPC) advertising, content management systems (CMS), social media management, and email marketing campaigns.

My multifaceted expertise has contributed to the growth and success of e-commerce operations, driving increased traffic, engagement, and revenue.

ECOMMERCE DEVELOPER

Strangewood Ltd 2014 July to May 2015

I have been responsible for maintaining and enhancing an e-commerce platform developed using object-oriented programming (OOP) PHP. My role involves ensuring the platform's stability, performance, and scalability to meet the growing demands of the business.

I work on debugging issues, optimising backend processes, and implementing new features to improve user experience and operational efficiency. My expertise in OOP PHP allows me to write clean, maintainable, and efficient code, ensuring the long-term sustainability of the platform. Additionally, I collaborate with cross-functional teams to integrate new technologies and functionalities, keeping the platform up-to-date with industry standards and best practises.

WEB DEVELOPER & DESIGNER

British Institute of Technology & E-Commerce - 2011 to 2014 July

I have designed and developed a comprehensive college web application using object-oriented programming (OOP) in PHP5, JavaScript, jQuery, AJAX, and MySQL.

My responsibilities included creating an intuitive and user-friendly interface, ensuring seamless navigation and accessibility for students, faculty, and administrative staff. I implemented dynamic features and functionalities that facilitated efficient management of college operations, such as course registration, student information systems, and internal communication tools.

My expertise in front-end and back-end development allowed me to deliver a robust, scalable, and maintainable application that met the institution's needs and enhanced the overall user experience.

- **AJAX & Asynchronous Programming:** Skilled in using AJAX and other asynchronous programming techniques to enhance the user experience through dynamic content updates

- **API Consumption**: Integrating and consuming RESTful APIs services to fetch and display data dynamically in web applications.

- **Performance Optimisation**: Optimising front-end performance through techniques like lazy loading, code splitting, and minification.

- Animation & Interactivity: Creating engaging animations and interactive elements using CSS animations

PROFESSIONAL MEMBERSHIP

- BCS
- IESL Institution of Engineers.

DEVELOPED SYSTEM

- Medical Lab Management System.
- Channeling Center Management Software
- EPoS System.
- Accounting Software.
- Lottery distribution & integrated Accounting Software.
- Banking system
- Student Information System

TECHNICAL SKILLS:

- **Programming & Frameworks:**
  Laravel 7, OOP PHP, JavaScript, JQuery

- **Databases:**
  MySQL Server

- **Web Technologies:**
  RESTful API, CSS3, HTML5

- **Tools & Platforms:**
  Docker, Microservices, AWS, Magento 2x, Git

KEY PROJECTS

GLOBAL E-COMMERCE PLATFORM

I have developed a comprehensive multi-country and multi-language e-commerce platform using Laravel, JavaScript, AJAX, MySQL Server, CSS, HTML, AWS, and Docker. This platform enables the sale of products globally, catering to both retail and trade markets. It supports multiple payment gateways and shipping methods, ensuring a seamless and flexible shopping experience for users.

My role involved designing and implementing robust backend services and creating an intuitive front-end interface. Leveraging the power of AWS and Docker, I ensured the platform's scalability, performance, and reliability. This project exemplifies my ability to deliver high-quality, scalable solutions that meet diverse business needs and enhance user satisfaction.

COLLEGE VIRTUAL LEARNING ENVIRONMENT

I developed Neted, a virtual learning environment (VLE) available to college academic staff and students. Neted is an online system designed to support teaching and learning, providing functionality that facilitates various educational processes. This platform offers tools and resources that enhance student engagement, streamline course management, and improve communication between instructors and learners.

My role involved designing a user-friendly interface and implementing robust backend services to ensure the system's reliability and scalability. Neted has significantly contributed to creating an effective online educational experience, supporting the academic community's needs.

STUDENT INFORMATION SYSTEM

As the lead developer, I spearheaded the development of the Student Information System application, creating and supporting business-critical modules essential for managing various academic processes. I developed functionalities for processing student biometric attendance and monitoring in compliance with UKBA regulations.

Additionally, I designed and implemented modules for generating academic reports, including result sheets and compliance reports. My work included creating a sophisticated scanning and processing application to extract and process OCR data for policy verification.

Furthermore, I developed a comprehensive document repository and monitoring system to enhance the accuracy and efficiency of attendance and academic record-keeping processes. This project underscored my ability to deliver robust, scalable solutions that significantly improve institutional operations and compliance.

HESA–HIGHER EDUCATION STATISTICS AGENCY ANNUAL REPORTING SYSTEM

I have developed a College Student Academic Information Reporting system using PHP, JavaScript, jQuery, AJAX, MySQL Server, CSS, and HTML5. This system was designed to streamline the reporting process, enabling efficient and accurate management of student academic records.

My responsibilities included creating a user-friendly interface, implementing robust backend functionalities, and ensuring data integrity and security. By leveraging these technologies, I successfully delivered a scalable and maintainable solution that enhanced the institution's ability to monitor and report on student academic performance.

DEVELOPING A CYBER DEFENCE TRUST NETWORK

I am a member of the Cyber Defence Trust Network, contributing to the development and implementation of a robust cyber defence framework in the Gulf region. This framework ensures the security of data for UAE citizens and the expatriate workforce, enhances e-governance services, and improves the nation's information infrastructure.

The project leverages an open-source system and its research outcomes to create a scalable and updateable security model. also, it connecting the Cyber Defence framework to various UAE government ministries. Additionally, the implementation training and research initiatives in cooperation with partners, leading to the development of a joint Cyber Security Centre.