

CHITRA RAMALINGAM

Backend PHP Developer | 5 Years Experience | Immediate Joiner | **Mobile:**

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CAREER OBJECTIVE

Results-driven Backend PHP Developer with 5 years of experience in developing scalable web applications using PHP, CodeIgniter, and MySQL. Seeking a challenging role to contribute expertise in REST API development, MVC architecture, database optimization, performance tuning, and production support in a growth-oriented organization.

PROFESSIONAL SUMMARY

- 5 years of experience in backend development using PHP and CodeIgniter framework.
- Strong knowledge of MySQL database design, query optimization, indexing, and stored procedures.
- Experience in developing RESTful APIs and implementing MVC architecture.
- Hands-on experience in ISP domain systems including Radius authentication and session management (PPPoE/IPOE).
- Skilled in production support, debugging, root cause analysis, and performance tuning.

TECHNICAL SKILLS

- Programming Language: PHP
- Framework: CodeIgniter (MVC Architecture)
- Database: MySQL, Stored Procedures, Indexing, Query Optimization, Transactions
- Web Technologies: HTML5, CSS3, JavaScript, jQuery, AJAX, Bootstrap, MySQL
- Concepts: OOP
- Domain Knowledge: ISP Systems, Radius, PPPoE, IPOE

PROFESSIONAL EXPERIENCE

Backend Developer | KNET Solutions Private Limited | Chennai

Feb 2021 – Present

- Developed and maintained scalable backend modules using PHP, CodeIgniter, and MySQL supporting 30,000+ users.
- Designed and implemented RESTful APIs for internal and third-party integrations reducing manual effort by 30%.
- Optimized MySQL queries, indexing, and stored procedures improving API response time by 40%.
- Followed SDLC process and implemented MVC architecture for structured development.
- Provided 24/7 production support including live debugging, root cause analysis, and zero-downtime fixes.
- Worked on ISP systems including Radius, PPPoE, and IPOE for session tracking and reporting.

- Ensured application security, data integrity, and high availability.
- Collaborated with cross-functional teams in Agile sprint planning and daily stand-up meetings.

PROJECT DETAILS

ISP Subscriber Management & Billing System

Technologies Used: PHP, CodeIgniter, MySQL, REST API, jQuery, HTML, CSS, JavaScript

Project Description: Developed a web-based ISP management system to streamline customer registration, plan allocation, and session tracking for broadband subscribers.

Key Responsibilities:

- Developed customer onboarding and plan management modules, enhancing user experience and operational efficiency.
- Implemented CRUD operations with CodeIgniter MVC, optimizing data handling and performance.
- Integrated RADIUS authentication for seamless subscriber session tracking.
- Designed and optimized MySQL tables and queries, improving data retrieval speeds.
- Created REST APIs for efficient internal data communication.
- Resolved production issues and enhanced overall system performance.

TR-069 Device Management & Zero-Touch Provisioning

Technologies Used: PHP, CodeIgniter, MySQL,

Key Responsibilities:

- Implemented TR-069 protocol for secure communication between ACS and CPE devices, ensuring robust connectivity.
- Configured automatic WAN MAC provisioning and device parameter synchronization via ACS.
- Enabled zero-touch provisioning for customer devices, eliminating manual configuration and reducing setup time.
- Managed remote device configurations, firmware upgrades, and diagnostics.
- Monitored CPE session logs and connectivity reports to ensure smooth broadband activation.

RADIUS-Based Subscriber Authentication & OLT IP Pool Management

Technologies Used: PHP, CodeIgniter, MySQL, RADIUS, Elasticsearch, REST API

Project Description: Designed and implemented a RADIUS-based authentication system integrated with OLT IP pool management, ensuring real-time validation and session tracking.

Key Responsibilities:

- Developed backend PHP modules to streamline the subscriber authentication workflow.
- Implemented RADIUS Access-Request/Access-Accept flow, enhancing subscriber validation speed.
- Integrated OLT partner-based IP allocation mechanism for efficient resource management.
- Managed WAN MAC authentication via PON tagging and ONU ID for secure connectivity.
- Configured IP pool release from OLT post-successful RADIUS authentication.
- Archived subscriber session logs into Elasticsearch for enhanced analytics and reporting.
- Handled session termination and re-authentication logic, troubleshooting issues effectively.

Element Management System (EMS) – ISP Broadband Provisioning

Key Responsibilities:

- Developed a web-based EMS to optimize broadband subscriber installations and OLT-partner mapping.
- Enabled automated ONU serial mapping and configured VLAN, PON tagging, and IP slot management based on OLT ONU ID tagging to ensure secure resource allocation and efficient network performance.
- Integrated customer onboarding with plan mapping to ensure accurate bandwidth delivery.

KEY ACHIEVEMENTS

- Improved backend application performance through database and API optimization.
- Handled critical production incidents independently with minimal downtime.
- Successfully delivered multiple backend modules within tight timelines.

EDUCATION

Bachelor of Science (B.Sc) in Computer Science
Chidambaram Pillai College for Women, Trichy
2017 – 2020 | GPA: 9.1/10

CERTIFICATIONS

Typewriting Junior – English (Distinction)

KEYWORDS

PHP Developer, Backend Developer, Web Developer, Software Engineer, REST API Developer, MySQL Developer, CodeIgniter Developer, Production Support Engineer