

Sandeep Bajpai

Architect/Lead Technical Lead & Backend Architect

SUMMARY

- Technical Lead & Backend Architect with 10+ years in scalable backend systems using Node.js, PHP (Laravel, CodeIgniter), and AWS.
- Expertise in microservices, cloud-native architectures, and performance optimization, achieving 40% faster system response.
- Proven track record in legacy system modernization, API design, and integrating complex third-party services like Facebook and Google APIs.
- Strong leadership in mentoring engineering teams, enforcing code quality, and implementing DevOps best practices with Docker and AWS.
- Computer Science B.Tech graduate with extensive experience in database design (MySQL, MongoDB, Postgres) and real-time high-volume application development.

TECHNICAL SKILLS

Main Technical Skills	Node.js (6 yr.), PHP (9 yr.), AWS (6 yr.)
Programming Languages	PHP (9 yr.)
PHP Frameworks	CodeIgniter (4 yr.), Laravel (3 yr.)
JavaScript Frameworks	Express (6 yr.), Node.js (6 yr.), React
Databases & Management Systems / ORM	Firebase (2 yr.), MongoDB (2 yr.), MySQL (9 yr.), PostgreSQL, Redis (2 yr.)
Cloud Platforms, Services & Computing	AWS (6 yr.), Firebase (2 yr.)
Amazon Web Services	AWS CloudFront (3 yr.), AWS EC2 (3 yr.), AWS S3 (3 yr.)
Virtualization, Containers and Orchestration	Docker (6 yr.), Kubernetes (2 yr.)
SDK / API and Integrations	Facebook API (2 yr.), Google API (2 yr.), OAuth (2 yr.), Twilio (2 yr.)
Version Control	Git, Gitflow (3 yr.)
Other Technical Skills	RazorPay (1 yr.), RDS (3 yr.)

WORK EXPERIENCE

Technical Lead | Backend Architect - Tycho Technologies Pvt Ltd (Core API Re-architecture and Audience Management Integrations)

Duration: August 2024 - Present



Summary:

- Re-architected the core API layer and led integrations with Facebook and Google for audience management, enabling seamless syncing of custom audiences without manual uploads
- Tycho Technologies is a company focused on delivering scalable backend solutions and cloud APIs

Responsibilities:

- Re-architected core API layer using Node.js and PHP CodeIgniter on AWS.
- Led end-to-end Facebook and Google audience-management integrations including OAuth, rate-limit handling, and retry logic.
- Built and mentored a 4-developer backend pod with code reviews, PR checklists, and pairing sessions.

Technologies: Node.js, PHP CodeIgniter, AWS, Facebook API, Google API, OAuth, Docker

Team Lead - Tycho Technologies Pvt Ltd (Multi-product Delivery and AWS Migration)

Duration: June 2021 - August 2024

Summary:

- Led a cross-functional team delivering PHP and Node.js products across multiple client engagements
- Migrated production applications to AWS, improving infrastructure and reducing costs

Responsibilities:

- Led a team of 5+ developers delivering PHP (Laravel/CodeIgniter) and Node.js products.
- Owned sprint planning, technical estimation, and delivery sign-off.
- Migrated three production applications from legacy shared hosting to AWS (EC2, RDS, S3, CloudFront).
- Established code-review and Git-flow standards and onboarded new engineers.

Technologies: PHP (Laravel, CodeIgniter), Node.js, AWS (EC2, RDS, S3, CloudFront), Git

Sr. PHP Developer - Tycho Technologies Pvt Ltd (Admin Panel Rebuild and Payment Gateway Integration)

Duration: August 2020 - June 2021

Summary:

- Rebuilt the core admin panel and designed the first REST API layer for the platform
- Took ownership of payment gateway integration and automation of finance reconciliation

Responsibilities:

- Rebuilt admin panel using Laravel and MySQL replacing CodeIgniter codebase.
- Designed and shipped REST API layer enabling mobile client development.
- Managed payment gateway integration (Razorpay) and reconciliation jobs.

Technologies: PHP (Laravel), MySQL, REST API, Razorpay



Senior Software Engineer - Keepme.ai (Backend Systems and CRM Development)

Duration: August 2024 - Present

Summary:

- Designing and developing scalable backend systems and APIs with microservices architecture
- Building CRM, audience management, and automation solutions integrated with multiple platforms

Responsibilities:

- Design and develop backend systems and APIs using PHP, Node.js, and microservices.
- Build CRM, audience management, and automation integrated with Facebook, Firebase, Twilio, and third-party APIs.
- Work on real-time systems, notifications, analytics dashboards, and performance optimization.
- Lead feature development, code reviews, debugging, and deployment.
- Develop cloud-native solutions using Docker, Kubernetes, MySQL, MongoDB, Redis, and AWS.
- Collaborate with cross-functional teams to deliver secure and reliable software.

Technologies: PHP, Node.js, Microservices, Facebook API, Firebase, Twilio, Docker, Kubernetes, MySQL, MongoDB, Redis, AWS

Senior PHP Developer - Allsport.in by Khelo Tech & Strategy (KT SPL) (Fantasy Sports Scoring Engine)

Duration: June 2020 - August 2020

Summary: Developed a fantasy sports scoring engine handling concurrent contest evaluation for thousands of users per match, ensuring real-time updates and database efficiency.

Responsibilities:

- Developed fantasy sports scoring engine in PHP.
- Implemented cron and queue infrastructure for near-real-time match event processing.
- Ensured user-facing updates without overwhelming the database.

Technologies: PHP, Cron, Queue infrastructure

PHP Developer - Sublime E Solution (Client Web Applications and Database Optimization)

Duration: January 2018 - May 2020

Summary:

- Delivered over 10 client web applications in PHP across ecommerce, lead-generation, and CRM domains
- Led database design and API development improving query performance

Responsibilities:

- Developed client web applications using PHP (Laravel and CodeIgniter).



- Owned database design and API layers including migrations to normalized schemas.
- Mentored junior developers on PHP best practices and code reviews.

Technologies: PHP (Laravel, CodeIgniter), MySQL, API design

Web Developer - 7Server (Client Website Development and Maintenance)

Duration: May 2015 - December 2017

Summary:

- Built and maintained client websites using PHP, MySQL, and front-end technologies
- Managed full client delivery cycle from requirements to deployment

Responsibilities:

- Developed and maintained websites using PHP, MySQL, HTML/CSS, JavaScript, Bootstrap, and WordPress.
- Handled requirements gathering, scoping, building, and deployment.

Technologies: PHP, MySQL, HTML, CSS, JavaScript, Bootstrap, WordPress

EDUCATION

- **HI-TECH INSTITUTE OF ENGINEERING AND TECHNOLOGY, GHAZIABAD**
B.Tech, Computer Science
July 2011 - May 2015
- **Christian Inter College**
Higschool & Intermediate, PCM
July 2008 - May 2011

CERTIFICATION

- **Yuva AI for All**

