Lakh Bawa

Full Stack Software Engineer | London, ON, Canada | +1-519-868-0001 | Lakhveerbawa121@gmail.com | linkedin.com/in/lakhbawa

About

Full Stack Software Engineer experienced in building and scaling high-performance web applications and distributed systems using PHP (Laravel, Symfony), Python (Django, FastAPI), and JavaScript (Node.js, Express, Vue.js, React). Strong background in software architecture, algorithm design, and system scalability. Delivered production systems including an IVR platform processing 100K+ daily calls and a recommendation engine serving over 2M users per day. Skilled in architecting reliable backends, developing responsive frontends, and deploying on AWS with Docker and CI/CD pipelines.

Experience

Castkro London, ON, Canada

Founding Engineer / Senior Full Stack Engineer

Dec '24 - Sep '25

- Engineered and deployed a scalable two-sided casting marketplace from scratch using Laravel, PostgreSQL, Docker, Redis, AWS, and integrated Al-driven features for talent suggestions and application writing assistance, enhancing user engagement and platform stickiness.
- Implemented LLM APIs (OpenAI, Assembly AI, Claude) in a Django (Python) backend to deliver AI-powered writing assistance and research features, significantly improving user productivity and engagement.
- Deployed a Socket.io, Node.js/JavaScript/TypeScript, and Redis-based server that reduced monthly infrastructure costs through optimized message broadcasting.
- Established the full software development lifecycle (SDLC) using Jira, Docker, Redis queues, and CI/CD pipelines to streamline development, testing, and deployment.
- Integrated event tracking for efficient Product Analytics using PostHog, capturing 50k+ events monthly and enabling the product team to make data-driven feature improvements

Shipfusion Toronto, ON, Canada

Full Stack Software Engineer

Jul '24 - Dec '24

- · Optimized Global Product Search, reducing query response time by 40% and significantly enhancing user experience.
- Developed intuitive analytics dashboards within the Shipfusion platform using PHP, Slim, and jQuery, enabling 200+ small businesses to make data-driven decisions.
- Developed custom shipping logic solutions for small businesses, enhancing operational efficiency and delivering a better end-customer experience.

Viamo Inc London, ON, Canada

Full Stack Software Engineer

Feb '22 - Jun '24

- Designed a scalable content recommendation system with BigQuery, Python, and Django, serving 2M users daily with personalised content.
- · Built IVR call-handling features with Laravel, Vue.js, and RabbitMQ, processing 100K+ calls daily and improving reliability.
- Engineered a highly scalable batch flow import feature utilizing JavaScript/TypeScript, driving a 30% increase in weekly user adoption.
- · Led performance architecture discussions on tree-based IVR call execution, improving processing efficiency by 10%.
- Led the adoption of standardised PR templates and API responses across the engineering team, improving clarity and increasing sprint ticket throughput by 15%.

Indivar Software Solutions Auckland, New Zealand

Software Engineer Mar '20 - Jul '21

• Co-architected full ERP software with the CTO and developed core modules using Laravel, React, PostgreSQL, and GraphQL, streamlining development for the engineering team.

- Redeveloped a mobile app for an ERP platform using Angular, Node.js, Ionic, and Symfony, streamlining payment processing for 30K+ customers monthly.
- Created SOPs for frequent client requests, cutting average ticket resolution time by 35%.

Freelancer London, ON, Canada

Web Developer Aug '17 - Feb '20

- Built MockReady.com, a peer-based English speaking practice platform using Laravel, Python, Vue.js, Nuxt.js, Docker, and AWS, enabling users to practice and improve language skills collaboratively.
- Built a warehouse security system with Node.js, Express.js, Arduino, and WebSockets, reducing incident response time by 35% and improving facility safety for 3 warehouses.
- Built 70+ websites with Symfony, React, and WordPress for e-commerce, real estate, and other industries, boosting client business growth.

Hatch2Web Technologies Chandigarh, India

Web Developer Jun '16 - Jul '17

- Built a real estate marketplace with Laravel and Bootstrap, launching a new company venture that expanded its digital presence and opened a new sales channel.
- Restored 20+ hijacked Core PHP and WordPress websites and implemented enhanced security practices, minimising downtime and safeguarding data integrity.

Skills

Backend: PHP · Node.js · Python · Go · Laravel · Django · Express.js · PHPUnit · REST APIs · GraphQL · Golang · RabbitMQ

Frontend: Vue.js · React · Next.js · Tailwind · Cypress · Jest · JavaScript · TypeScript · HTML5 · CSS3

Databases: PostgreSQL · MySQL · MongoDB · Redis · BigQuery

DevOps & Infrastructure: Docker · AWS (EC2, S3, Lambda) · Git · CI/CD · Unit Testing · Integration Testing **Soft Skills:** Team collaboration · Leadership · Communication · Stakeholder Management · Mentoring · Agile

Methodologies

Education

Fanshawe College Apr '19

Ontario College Diploma in Interactive Media Specialist | Interactive Media Specialist (Information Technology)

Punjabi University May '16

Bachelor's Degree | B.sc - Bachelor of Science

Netmax Technologies Jan '15

Other | Advanced Web development

Certifications

Software Architecture and Large Scale System Design | Top Developer Academy

Oct '24

Software Architecture of large scale systems, capable of handling millions of requests/day

Algorithms and Data Structures | Joe Marini - Lynda

Aug '19

Algorithms and Data Structures helped me become good at highly complex problem solving

Learned Server Administration which is essential to manage the infrastrcture