## **DURGA PARSHAD**

#### **Lead Team & Engineering**

Results-driven Technical Lead & Engineering Leader with over a decade of extensive experience in designing and optimizing scalable, high-performance systems. Passionate about leveraging cloud-native solutions, DevOps practices, and Al-driven automation to enhance efficiency, reliability, and security. Adept at leading cross-functional teams, driving innovation, and aligning technical strategies with business goals. Seeking Senior Software Engineer or Lead Architecture roles to contribute expertise in microservices architecture, full-stack development, and cloud computing toward building cutting-edge solutions.

(+91) 623-941-5925

durgadp16@gmail.com

https://www.linkedin.com/in/th edurgaparshad

# Chandigarh, India

#### Profile Summary

- Experienced Technical Architect & Engineer with expertise in designing and developing scalable, microservices-based systems, handling high-traffic API requests with optimized performance.
- Cloud Computing & DevOps Specialist, proficient in AWS, GCP, Kubernetes, Docker, and CI/CD pipelines, ensuring seamless deployments and reducing operational overhead.
- Full-Stack Development Expertise in Node.js, React, MySQL, and MongoDB, delivering robust solutions for FinTech, E-commerce, SaaS, and blockchain-based applications.
- Strong Leadership & Mentorship Skills, managing and guiding engineering teams to improve workflows, enhance productivity, and drive innovative solutions.
- Al & Automation Advocate, leveraging Al-powered tools (GitHub Copilot, ChatGPT) for code review, debugging, and efficiency improvements in the development lifecycle.
- Performance Optimization Expert, skilled in reducing system latency, enhancing database query efficiency, and improving API response times for seamless user experiences.
- Security & Compliance Champion, implementing best practices to ensure high availability, secure authentication, and adherence to industry standards.
- Proficient in System Migration & Modernization, transitioning monolithic applications to microservices and implementing serverless architectures for enhanced scalability.
- Hands-on Experience with Agile & TDD methodologies, focusing on automated testing frameworks (Jest, Mocha) to improve code quality and reduce production issues.
- Innovative Problem-Solver, aligning technical strategies with business goals, accelerating feature development, and driving cost-effective engineering solutions.

# Core Competencies

**Software Architecture & Microservices Strategy** 

Cloud Infrastructure, DevOps & CI/CD Implementation

**System Performance Optimization & Scalability** 

**Enterprise Application Development & Modernization** 

**Agile, Scrum & SDLC Best Practices** 

Technical Leadership, Team Mentorship & Collaboration

AI-Powered Development, Automation & Innovation

Security, Compliance, Risk Management & IT Governance

**Product Strategy, Roadmap Execution & Cost Optimization** 

Stakeholder/Client Collaboration & Business Alignment

**Project Management Cross-Functional Coordination** 

Code Quality, Testing, Debugging & Performance Metrics

Requirement Analysis, Solution Design & System Migration

**Business Process Improvement & Cloud Cost Management** 

**High Availability & Disaster Recovery** 

# Project Details

#### Helloha - A Social Approach to Mental Wellness

- Developed a scalable social networking platform focused on mental wellness, enabling seamless user interactions and real-time communication.
- Integrated AWS Cognito & OAuth 2.0 for secure authentication and identity management.
- Implemented a real-time chat system using WebSocket to enhance user experience.

#### Jobr Ecommerce Platform - Ecommerce App

- Designed a serverless architecture using AWS Lambda to improve scalability and fault tolerance.
- Developed an asynchronous event-driven system with RabbitMQ for efficient order processing & notifications.
- Optimized database performance using MongoDB indexing & Redis caching, reducing load times by 50%.
- Use Stripe Financial Connections API to let customers securely connect their bank accounts

#### Education & Credentials



Master of Computer Application (MCA) | Punjab Technical University, Punjab



Bachelor of Computer Application (BCA) | Panjab University, Chandigarh



**Certifications** 

- **Software Testing Foundations**: Integrating AI into the Quality Process LinkedIn
- **Software Architecture**: Patterns for Developers LinkedIn
- Building RESTful APIs with Node.js and Express.js LinkedIn

Collaborative **Teamwork** 

Interpersonal Skills

Leadership Competence

**Effective Decision-Making** 

**Analytical Problem-Solving** 

Conflict Resolution **Expertise** 

March 2023 -Present Riverbco Technologies, Chennai

Lead Team & Engineering May 2021 -December 2022 Itechnolabs Inc, Mohali

Full Stack Developer May 2020 -December 2021 IO Data Lab Inc, Mohali

Senior Software Developer August 2019 -April 2020 Ashriya Infotech, Mohali

Software Engineer February 2018 -August 2019 Antier Solutions, Mohali

Software Developer July 2016 -February 2018 Eweb A1 Professionals,

Mid Software

Mohali

December 2014 -May 2016 Mysense Technologies, Mohali

Junior Software Developer



# Work Experience

#### March 2023 - Present | Riverbco Technologies, Chennai (Product-Based) | Lead Team & Engineering

- Architecting a scalable microservices-based system processing 100K-150K daily API requests, ensuring high reliability and performance.
- Deploying cloud-native solutions using AWS, GCP & Kubernetes, enhancing system uptime to 99.99% while cutting operational costs by 20%.
- Optimizing CI/CD pipelines and leveraging containerization with Docker & Kubernetes to reduce deployment time from 30 minutes to 5 minutes, boosting release efficiency.
- Leading a team of 5+ engineers, mentoring junior developers, and refining workflows to enhance development efficiency by 25%.
- Integrating AI-powered development tools (Copilot, ChatGPT) to streamline code review and debugging, improving productivity by 20%.
- Enhancing system performance through architectural reviews and optimizations, reducing latency by 40% for faster response times.
- Implementing robust security best practices and compliance measures, ensuring zero critical vulnerabilities in production over the past 24 months.
- Defining and executing technical roadmaps and strategic initiatives to align engineering objectives with business goals, accelerating feature delivery by 30%.
- Tech Stack: Node.js, TypeScript, AWS, GCP, OpenAI, MongoDB, PostgreSQL, CI/CD, Pub/Sub

#### May 2021 - December 2022 | Itechnolabs Inc, Mohali (Outsourcing & Service-Based) | Full Stack Developer

- Led the development and delivery of 10+ client projects across FinTech, E-commerce & SaaS, ensuring 100% on-time completion.
- Enhanced backend system scalability by optimizing architectures using Node.js, MySQL & MongoDB, which had improved API response times by 40%.
- Engineered seamless third-party API and payment gateway integrations, which had reduced integration time by 35%.
- Transformed monolithic applications into microservices architecture, which had significantly boosted system maintainability & scalability.
- Streamlined CI/CD pipelines on AWS, which had cut deployment failures by 50% and ensured seamless releases.
- Tech Stack: Node.js, React.js, MySQL, MongoDB, Unit Testing (Jest), Docker, RabbitMQ, Kafka, Redux

### May 2020 - December 2021 | IO Data Lab Inc, Mohali (Product-Based) | Senior Software Developer

- Adopted Test-Driven Development (TDD), which had enhanced code reliability and reduced production bugs by 40%.
- Established and maintained unit & integration tests using Jest & Mocha, which had resulted in 85%+ test coverage across critical services.
- Revamped legacy codebases to improve maintainability & scalability, which had minimized technical debt and enhanced system performance.
- Upgraded the CI/CD pipeline by integrating automated testing frameworks using Jest and Mocha, which had decreased deployment rollback incidents by 30%.
- Tech Stack: Node.js, SQL Server, MySQL, Unit Testing (Jest, Mocha), Graphql, Python Flask

#### August 2019 - April 2020 | Ashriya Infotech, Mohali (Outsourcing & Service-Based) | Software Engineer

- Designed and integrated automated testing frameworks using Jest and Mocha, which had enhanced code quality and reduced post-deployment issues by **30%**.
- Collaborated with clients to gather requirements & deliver tailored solutions, which had enhanced user satisfaction and improved project success rates.
- Tech Stack: Node.js, React.js, MongoDB, Unit Testing

## February 2018 - August 2019 | Antier Solutions, Mohali (Outsourcing & Service-Based) | Software Developer

- Partnered with cross-functional teams to create blockchain solutions, which had enabled seamless integration with existing financial systems.
- Engineered and launched decentralized applications (dApps), which had ensured accurate blockchain transactions and smooth platform integration.
- Tech Stack: Node.js, Blockchain, Redis, WebSocket, MySQL

# July 2016 - February 2018 | Eweb A1 Professionals, Mohali (Outsourcing & Service-Based) | Mid Software Developer

- Developed and fine-tuned RESTful APIs for multiple client projects, which had enhanced data exchange efficiency and reduced response times by 30%.
- Tech Stack: Node.js, React.js, MySQL

# December 2014 - May 2016 | Mysense Technologies, Mohali (Outsourcing & Service-Based) | Junior Software Developer

- Acquired hands-on experience in API development and database management, which had established a strong foundation for scalable backend architectures.
- Tech Stack: Node.js, Laravel, MySQL, AWS