Parthasarathy Murugesan

+1 (617) 435-8934 | mvpartha25@gmail.com | LinkedIn | GitHub | Profile

SUMMARY

Software Engineer with 4 years of experience in full-stack development, specializing in scalable systems, cloud tech. Achieved 50% scalability improvements, led impactful platform re-architecture, and generated $1M+ in revenue through cloud-native solutions.

EXPERIENCE

Software Engineer, Founding Team | Bazar Enterprises (startup), Thousand Oaks, CA   **Aug 2023 - Jan 2024**
- Designed and developed high-performance applications using React.js and Next.js; restructured the codebase, improving maintainability, which allowed for more efficient updates and a smoother user experience for over 12,000 monthly visitors.
- Executed advanced server-side rendering (SSR) and static site generation (SSG) solutions using Next.js, Typescript and Docker; improved scalability metrics, enabling the infrastructure to handle 50% more users without performance degradation.
- Integrated message queuing solutions using RabbitMQ and Kafka between checkout and billing services; boosting transaction throughput by 40% and ensuring seamless customer transactions during peak hours.
- Migrated Bazar's checkout, items, and shop servers to Kubernetes, building CI/CD pipelines with AWS, Docker, GitLab and Python, improving system availability by 40%.

Software Developer Intern | Vertex Pharmaceutical, Boston, MA   **May 2023 - Aug 2023**
- Innovated interactive web interfaces through advanced application of HTML, CSS, Typescript and React.js; accelerated mobile responsiveness, directly contributing to over 300 new user sign-ups within the first month of launch.
- Architected scalable 10+ backend services and RESTful APIs utilizing Python, Django, Node.js and Express.js; enhanced server response times by 30%, resulting in a more efficient user experience during high-traffic events and peak usage periods.
- Engaged in daily Agile and Scrum stand-ups that facilitated communication across a cross-functional team of 8, improving project alignment and increasing task completion rate by 25% within sprint cycles.
- Implemented CI/CD pipelines with Jenkins, Docker, and GitLab, improving deployment speed by 2 weeks and reducing errors by 40%.

Programmer Analyst | Cognizant, Chennai   **Jan 2021 - Dec 2021**
- Facilitated the requirement-gathering process with 10 stakeholders, converting intricate business and scientific objectives into clear specifications that led to the successful completion of 2 web applications and enhancing delivery timelines by 25%.
- Built responsive SPAs with Angular and React, improving performance and reducing load times by 25%.
- Relocated a multi-page user experience into a single page application, improving customer engagement by 12%.
- Enhanced ad targeting accuracy for a major US-based bank by optimizing database operations with SQL and a graph-based database for user linkage, achieving a 30% increase in campaign effectiveness and engagement.
- Executed a targeted backend testing initiative with JUnit and Test Containers, uncovering 20+ bugs facilitating feature releases two weeks ahead of schedule.

Software Engineer | Newton Cloud, Remote   **Jan 2019 - Dec 2020**
- Architected a cloud-native application utilizing a microservices architecture that improved deployment speed by 40%; integrated Spring Boot, Docker, and Kubernetes, resulting in a sustainable platform for future growth.
- Automated 25+ repetitive data entry tasks using custom Python and SQL scripts, cutting processing time by 30%, which allowed the data analytics team to focus on strategic insights and complex analysis.
- Drove the successful launch of over 5 e-commerce sites with a team of 20+ colleagues, optimizing payment API integrations that increased transaction completion rates across all platforms.
- Created and validated 20+ RESTful APIs using Spring Boot and Node.js, enhancing API response times by 25% and enabling seamless integration with front-end services.
- Developed and committed code to GIT/SVN and created 300+ code reviews within 20 weeks of joining the organization.

PROJECTS

HuskyHive Gig Portal (React, Next, Mongo, Express**, PostgreSQL, AWS, Python)**   **May 2023 - Nov 2023**
- A marketplace portal with a responsive front-end, secure API communication, robust authentication and session management.

SKILLS

- **Programming**: Python, Java, JavaScript, TypeScript, C++, HTML, CSS, Bash/Shell Scripting
- **Frontend Development**: React.js, Ember.js, React Native, Electron.js, Next.js, D3.js, Three.js, Sass, Redux
- **Backend Development**: Express.js, Flask, Node.js, Spring Framework, Ruby on Rails, Django
- **Database Management**: PostgreSQL, MySQL, Redis, MongoDB, OracleDB, Cassandra
- **DevOps & CI/CD:** Jenkins, Docker, Kubernetes, Git, GitLab, Maven, Gradle, Ansible, Terraform
- **Cloud Platforms**: AWS (S3, CloudFront, Route 53, EC2, Lambda), Azure (Functions, Cosmos DB, AKS), Google Cloud Platform
- **Event-Driven Systems**: Kafka, RabbitMQ
- **Testing and Quality Assurance**: Jest, Enzyme, Cypress, React Testing Library, JUnit, Selenium, Postman, JIRA
- **Agile Methodologies / Tools**: Figma, Scrum, CI/CD Pipelines, TDD, BDD, Kanban

EDUCATION

Master of Science in Computer Science   **Jan 2022 - May 2024**
Northeastern University, Boston, MA

B.Tech in Information Technology   **Aug 2017 – Jul 2021**
Anna University, Chennai, India