

# ALEXANDER BHARATHI

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## PROFESSIONAL SUMMARY

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**Full-Stack Software Developer** with **3.5 years** of experience building scalable e-commerce platforms, event-driven systems, and high-performance web applications using **Angular, React, Node.js, TypeScript, PostgreSQL**, and **MongoDB**. Experienced in **frontend architecture, microservices, REST APIs, performance optimization**, and cloud-native development on AWS. Strong expertise in designing reusable UI systems, scalable backend services, and automation workflows following modern software engineering principles and full **SDLC** practices.

## TECHNICAL SKILLS

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- **Frontend:** Angular(v14+), React, JavaScript, TypeScript, HTML5, SCSS, RxJS, NgRx, Angular Signals
- **Backend:** Node.js, Express.js, REST APIs, GraphQL, Microservices, OAuth, JWT Authentication
- **Databases & ORM:** PostgreSQL, MongoDB, Sequelize
- **Cloud & Messaging:** AWS (EventBridge Scheduler, SQS, SES, Lambda)
- **Testing:** Cypress, Jest, Karma
- **Tools:** Git, GitLab, GitHub, Sourcetree
- **Others:** Figma, Responsive design, Test-Driven Development, Performance Optimization

## PROFESSIONAL EXPERIENCE

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**Full-Stack Software Developer, Centizen Inc., Tirunelveli, India** Feb 2023 – Present

- Engineered scalable **full-stack e-commerce applications** using Angular, Node.js, Express.js, PostgreSQL, and MongoDB following component-driven architecture and RESTful design principles.
- Built a reusable Angular directive and component library using **Standalone Components, Dependency Injection**, and **OnPush** Change Detection, improving rendering performance by **30%**.
- Delivered and customized **12+** responsive e-commerce storefronts with reusable UI components, **lazy loading**, modular architecture, and cross-browser optimization.
- Modernized legacy Angular applications by migrating to Standalone Component Architecture, improving maintainability, routing scalability, and **bundle optimization**.
- Optimized frontend application performance using **route-based code splitting, lazy loading, RxJS state handling**, and Angular routing strategies, reducing initial load time from ~4s to ~1.3s.
- Designed and integrated secure payment processing systems using **Stripe, Razorpay, Square**, and **Authorize.Net APIs**, enabling scalable and fault-tolerant checkout workflows.
- Developed a scalable **email marketing and campaign management platform** enabling customer segmentation, campaign scheduling, template management, and bulk email orchestration.
- Implemented **Server-Side Rendering (SSR)**, dynamic SEO metadata generation, and **structured data (JSON-LD)** to improve search engine indexing, web performance, and discoverability.
- Improved **PostgreSQL** database performance through schema normalization, indexing optimization, and query tuning, reducing redundant data storage and improving execution efficiency.
- Built automated data retention and cleanup workflows using scheduled database procedures and backend automation processes, reducing inactive store data storage by **35%**.
- Architected a high-throughput **event-driven analytics pipeline** using **AWS SNS, AWS Lambda**, and asynchronous processing patterns to process millions of email events with sub-second latency.
- Implemented an **event-driven abandoned cart recovery system** using **AWS EventBridge Scheduler, AWS SQS**, and microservice orchestration, increasing cart conversion rates by **40%**.
- Architected and maintained the email notification microservice for an e-commerce platform, enabling high-availability delivery of **20K+ emails/day** through optimized schema design and query indexing.
- Developed and maintained backend APIs using **Node.js, Express.js**, and asynchronous programming patterns with emphasis on scalability, error handling, and API performance optimization.
- Strengthened quality using **Jest/Karma** (unit) and **Cypress** (E2E) testing.
- Collaborated in **Agile** development environments using **Git, GitLab**, and code review workflows while mentoring junior developers on Angular architecture, debugging strategies, and clean coding practices.

## EDUCATION

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- **Kongunadu College of Technology and Engineering** Jun 2019 – May 2023  
Bachelor of Engineering (Mechanical Engineering)  
CGPA: **9.29 / 10**

## AWARDS

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- Surrealist Designer Award – Centizen Inc. (2023)
- Innovation Integrator Award – Centizen Inc. (2024)