ANNA LAVANYA T

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Software Engineer (Node.js, Express) with 2+ years of experience designing and optimizing scalable backend systems, RESTful APIs, and microservice architectures. Proven track record in improving performance, ensuring high availability, and implementing secure authentication. Skilled in PostgreSQL, MySQL, MongoDB, AWS (Lambda, S3, SES), and React.js for full-stack integration. Passionate about writing clean, testable, and maintainable code that aligns with SOLID principles and industry best practices.

Professional Experience

Software Engineer – Centizen Inc. (Feb 2023 – Jun 2025)
Project: ZenBasket (E-Commerce Platform) | getzenbasket.com

- Designed and implemented scalable RESTful APIs using Node.js and Express.js, improving response time by 30%.
- Architected a tagging and segmentation system enabling personalized bulk email campaigns, boosting engagement by 25%.
- Configured AWS S3 for cloud-based image storage and retrieval, enhancing scalability and security.
- Developed SES event handling via AWS Lambda for automated email suppression (bounces, spam, complaints).
- Integrated Mail Logs API for real-time email tracking and admin analytics dashboards.
- Ensured 99.9% uptime through efficient server configuration and request optimization.

Project: ZenBasket Digital Marketing Services Portal | marketing.getzenbasket.com

- Engineered JWT-based authentication and role-based authorization, improving session control and API security.
- Built OTP login and password recovery flows, reducing support tickets by 40%.
- Integrated Razorpay for seamless payment processing, handling edge cases for transaction integrity.
- Implemented payment logs and monitoring tools for end-to-end financial traceability.
- Collaborated with frontend developers to align REST API contracts and enhance user experience.

Software Engineer Intern – Centizen Inc. (Feb 2023 – Jul 2023)

- Developed and optimized backend APIs for data-intensive workflows with PostgreSQL, handling 1000+ records.
- Implemented Jest test suites achieving 90%+ test coverage, improving release confidence.
- Authored detailed API documentation using Swagger, supporting smooth cross-team integrations.
- Improved API performance through query optimization.

Educational Background

July 2019 - May 2023
Bachelor of Engineering (Electrical and Electronics Engineering) – Einstein College of Engineering

Skills

- **Backend:** Node.js, Express.js
- **Databases:** PostgreSQL, MySQL, MongoDB
- **ORM:** Sequelize
- **Frontend:** React.js, JavaScript, HTML, CSS, Tailwind CSS
- **Cloud & DevOps:** AWS (Lambda, S3, SES)
- **Testing:** Jest
- **Tools:** Swagger, Git

Certifications

- **Node.js** Developer Certification – NamasteDev.com
- **JavaScript Advanced Concepts** – Namaste JavaScript (Akshay Saini)

Additional Information

Awarded "**Code Quality Champion**" at Centizen Inc. for delivering maintainable, well-tested code aligned with best engineering practices.