

Jesus Rosario

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Software Engineer

Technical Skills:

- **Languages & Back-End:** JavaScript, TypeScript, PHP, Node.js (Express, Fastify)
- **Front-End:** React.js, Next.js, HTML, CSS
- **Databases:** MySQL, NoSQL
- **Others:** AWS (EC2, S3, RDSS, ECS), Azure (AD B2C, API Management) Docker, Redis, Linux

Professional Experience:

Software Engineer | Police Records Management Group (PRMG)

May 2022 - Present

- Collaborated with product owners and stakeholders to gather requirements and led the development of a suite of SaaS applications for PRMG.
- Architected and implemented database solutions for the suite, including user management, tenant subscription, secure payment processing, and public records management, enhancing overall system performance and integration.
- Developed a user management microservice with Azure AD B2C, significantly enhancing identity management and SSO capabilities. Implemented robust token validation strategies for system reliability and security, while efficiently managing user identities, roles, and permissions. Utilized Redis for session management and built the system with Fastify and TypeScript, providing a secure and efficient platform for authentication processes.
- Developed a new secure payment service integrating Stripe SDK, improving transaction efficiency and compliance, which contributed to a 15% increase in transaction volume and enhanced user security.
- Led and implemented the end-to-end migration of the application's file storage system from AWS block storage to S3 buckets, achieving a 77% cost reduction and a 40% improvement in data retrieval times, significantly enhancing system availability and security.
- Standardized development environments using Docker, reducing setup times for new projects by 50% and streamlining CI/CD pipelines.
- Mentored and led a team of developers, reducing onboarding time by 30% and significantly boosting project delivery efficiency.

Key Projects:

- **E-commerce Store (GitHub):** Developed an e-commerce application featuring an admin dashboard, with seamless PayPal integration for secure transactions. Tech Stack: Node.js, Express.js, React.js, Redux, PayPal.
- **Bug Tracker Management App (GitHub):** Developed a bug tracking tool with a Node.js backend and React.js frontend, including custom hooks and JWT for authentication. Tech Stack: Node.js, Express.js, React.js, JWT, Redux Toolkit.

Education:

New England Institute of Technology, East Greenwich, RI
Associate of Science in Information Technology / Software Engineering