



# RENZ JASKIN AGMATA

## SOFTWARE ENGINEER

### PROFESSIONAL SUMMARY

- 3+ years of experience in Software Engineering, specializing in building scalable and responsive applications.
- Frontend Expertise: React.js, Next.js, TypeScript, React Hook, React Context, RTK Query, Tailwind CSS, ShadCN UI, Material-UI
- Backend Expertise: Node.js, Express.js, PostgreSQL, RESTful APIs, AWS Lambda
- Database: PostgreSQL, MongoDB, DynamoDB — with hands-on experience in schema design and optimization.
- Cloud & DevOps: AWS (Lambda, S3, SES, SQS, CDK), CI/CD pipelines using GitHub Actions
- Architecture: Microservices, serverless applications, event-driven systems, and API integrations
- Testing & Quality: Integration and end-to-end testing using Vitest and Playwright; experienced in code reviews via GitHub
- Collaboration: Strong background in agile development, API documentation, and cross-functional teamwork

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### CONTACT

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**Portfolio:** <https://jaskindev.netlify.app>

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### WORK EXPERIENCE

#### Software Engineer

Ingenuity Software – Davao City, Philippines

2022 - 2025

- Develop and maintain full-stack applications using React.js, Next.js, Node.js, Express.js, and TypeScript.
- Design and implement RESTful APIs and backend microservices with PostgreSQL and AWS Lambda.
- Utilize AWS services such as SQS, SES, and CDK for serverless deployment and infrastructure automation.

- Build responsive frontend interfaces using Material-UI, Tailwind CSS, and ShadCN UI based on Figma designs.
- Manage state and form logic using React Hooks, React Context, React Hook Form, and RTK Query.
- Develop and execute integration and E2E tests with Vitest and Playwright.
- Collaborate through GitHub for version control, code reviews, and CI/CD workflows.

### **Backend Developer – ERP System**

2022 – 2023

- Built and refactored backend services using Node.js, Express.js, and PostgreSQL.
- Integrated enterprise systems with RESTful APIs.
- Developed workflow automation, error monitoring, and notification features via AWS SES and SQS.
- Deployed serverless functions using AWS Lambda

### **Frontend Developer – Golf Online Booking App**

2023

- Built responsive pages and booking interfaces using Next.js, TypeScript, and Material-UI.
- Implemented form validation and API integrations using React Hook Form and REST APIs.
- Ensured UI consistency and user experience across web and mobile views.

### **Frontend Developer – Confide Platform (Whistleblowing Web App)**

2023 – 2024

- Designed and developed secure, responsive UI using React.js, Material-UI, Tailwind CSS, and ShadCN UI.
- Managed state and form logic using React Hook Form, React Context, and RTK Query.
- Migrated UI components from Material-UI to Tailwind CSS for improved performance and flexibility.
- API Integration

### **Backend Support – MVP Infrastructure Setup**

2024 – 2025

- Assisted in defining AWS Lambda functions and integrating DynamoDB databases.
- Managed infrastructure configuration using AWS CDK and collaborated with DevOps for deployment.
- Supported backend logic development with Python and TypeScript in a serverless architecture.

### **Backend Developer – Auto Posting Proof of Concept**

2025

- Worked on a Django-based proof of concept for automated post scheduling across multiple platforms.
- Implemented the integration logic for scheduled publishing to selected social media platforms.
- Drafted detailed client requirement documentation, including steps for setting up a Meta Developer Account, providing Privacy Policy, Terms of Service, and API purpose declaration.
- Ensured the prototype complied with platform integration policies, enabling smooth progression to full implementation.

## **Frontend Developer – Streetlight Monitoring & Reporting App**

2025

- Designed and developed a responsive, user-friendly interface for a multi-role collaboration platform used by Admins, Barangay Officials, General Users, Crew Members, and Team Members.
- Implemented clear role-based access flows, where:
  - Admins can manage all reports, monitor statuses, view attachments, and oversee crew activity.
  - Barangay Officials can create and validate reports.
  - Users can submit issues, view status updates, and rate service quality.
  - Crew Members can update task progress such as marking reports as ongoing, maintenance, replacement, or completed.
- Built dynamic report history tables, sortable lists, and filtered views for tracking progress across all stages of the streetlight issue lifecycle.
- Developed intuitive forms for adding report details, uploading attachments, and viewing completed tasks, ensuring smooth submission and review workflows.
- Integrated frontend with backend APIs to synchronize real-time status updates, crew activities, report timelines, and user feedback.
- Enhanced overall UX using React.js, Tailwind CSS, and ShadCN UI, ensuring consistent component design and smooth interactions across devices.

## **Laboratory Aide**

**November 2019 - July 2022**

Philippine Rubber Testing Center

- Created data visualizations to support lab analysis.
- Organized and maintained lab documentation, including calibrations and team travel.
- Communicated with clients and stakeholders, supporting lab manager in daily operations.
- Ensured accurate data entry and efficient record-keeping.

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## **KEY PROJECTS**

### **ERP SYSTEM**

 2022 – 2023  Ingenuity Software  Backend Developer

Tech: **Node.js, Express.js, PostgreSQL, AWS Lambda, AWS SQS, AWS SES, AWS CDK, REST API**

The ERP System aimed to automate client workflows and integrate various enterprise systems for efficient travel request and approval management.

Backend:

- Developed and maintained backend microservices using Node.js and Express.js following RESTful architecture.
- Implemented data fetching, transformation, and routing logic between OutSystems frontend and backend services (Oracle Fusion).
- Created API health dashboards and error notification systems using AWS SES and SQS.
- Managed serverless deployment using AWS Lambda and infrastructure automation with AWS CDK.

- Performed data migration from legacy systems and refactored outdated code for better maintainability.
- Set up CI/CD pipelines using GitHub Actions for automated builds and deployments.

## CONFIDE PLATFORM (Whistleblowing Web Application)

 2023 – 2024  Ingenuity Software  Frontend Developer

Tech: **React.js, Material-UI, Tailwind CSS, ShadCN UI, TypeScript, RTK Query, React Hooks, React Context, React Hook Form**

A confidential platform designed for secure whistleblowing and case management within organizations.

Frontend:

- Built the frontend architecture from Figma designs using Material-UI, Tailwind CSS, and ShadCN UI.
- Managed complex form states with React Hook Form and global state using React Context.
- Integrated RTK Query for data fetching, caching, and API state management.
- Implemented secure API integrations for report submission, case tracking, and admin management.
- Migrated the design system from Material-UI to Tailwind CSS for better scalability and performance.
- Ensured accessibility, responsiveness, and consistent design across devices.

## MVP BACKEND INFRASTRUCTURE SUPPORT

 2024 – 2025  Ingenuity Software  Backend Support Developer

Tech: **AWS Lambda, AWS DynamoDB, AWS CDK, Python, TypeScript**

Supporting the backend infrastructure setup for a Minimum Viable Product (MVP) built on serverless architecture.

Backend & Cloud:

- Assisted in defining and deploying AWS Lambda functions for core backend logic.
- Configured AWS CDK for Infrastructure as Code, managing resource provisioning and environment setup.
- Integrated DynamoDB as the main NoSQL database for data handling.
- Collaborated with DevOps engineers to align CI/CD and deployment processes

## Streetlight Monitoring & Reporting App

 2025  Ingenuity Software  Software Developer

Tech: **Tailwind CSS, ShadCN UI, TypeScript, TanStack Query, Zustand, React Hooks**

Supporting the backend infrastructure setup for a Minimum Viable Product (MVP) built on serverless architecture.

Frontend:

- Built a responsive, user-friendly UI with Tailwind CSS and ShadCN UI, supporting clear workflows for Admins, Barangay, Users, and Crew Members.

- Implemented role-based dashboards with features for reporting issues, uploading attachments, tracking statuses, and managing crew updates.
  - Developed report history tables, filtered lists, and intuitive forms using React Hook Form for efficient data input and status updates.
  - Integrated TanStack Query for real-time data synchronization and used Zustand for global state management across the platform.
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## TECHNICAL SKILLS

- **Front-End Development:** React.js, Next.js, Responsive Design
  - **Programming Languages:** JavaScript/es6, TypeScript & Python
  - **Backend Development:** Node.js, Express.js, RESTful API Development
  - **Databases:** PostgreSQL, MongoDB, DynamoDB
  - **Cloud & Serverless:** AWS Lambda, AWS CDK, AWS SES
  - **Testing & QA:** Jest (unit/integration), Cypress (end-to-end), API Testing (Postman)
  - **DevOps:** CI/CD Automation (GitHub Actions), Version Control (Git, GitHub, GitLab)
  - **Project Tools:** Jira, Confluence
  - **Design & Collaboration:** Prototyping with Figma
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## WEB DEVELOPMENT TRAINING

### FullStack Web Development

January 2022-July 2022

Uplift Code Camp

- Learning the fundamentals and industry standards of MongoDB, Express.js, React.js, and Node.js.
  - Projects: Backend RESTful API Design: Development of a Recipe List API with a focus on scalability, reliability using Node.js, express.js, MongoDB. Create E-commerce site (Online shopping store) using React.js. Utilizing React hooks for state management and tailwind.css for the design Todo list app using React.js, HTML and CSS Weather forecast app using React.js Node.js and
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## ACADEMIC HISTORY

### University of Southern Mindanao

Bachelor of Science in Computer Science

2015 - 2019