

MEAGAN RAMEY

Software Development Engineer

Broomfield, CO

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Professional Summary

Full-stack Software Engineer with 4+ years of experience specializing in modern React/TypeScript front-end development and Python/C# event-driven microservices. Proven leader in technical modernization (rewriting Angular to React) and critical infrastructure resilience. Expertly designed and implemented a multi-region, active-active Kafka architecture that doubled consumer processing capacity and guaranteed exactly-once processing through atomic idempotency. Adept at managing the full SDLC and mentoring junior engineers.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, C#
- **Frameworks & Tools:** React, AngularJS, AWS SES, Material UI, Node.js, Redux, Firebase, Bootstrap, Django
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase
- **Testing & Automation:** Selenium, Behave, Vitest, BDD, TDD
- **CI/CD & DevOps:** GitHub Actions, Azure DevOps, Docker, Terraform
- **Other:** Event-Driven Design, Microservices Architecture, AWS Deployment, Integration and Regression Testing, Scrum Leadership,

PROFESSIONAL EXPERIENCE

Software Development Engineer 2 | WEX | Remote | October 2023 – Present

- Architected and implemented a highly-resilient, active-active, multi-region Kafka infrastructure (US-East-1 and US-West-2) using MirrorMaker2, increasing consumer processing capacity by 100%.
- Implemented atomic, database-backed idempotency in a core library, guaranteeing exactly-once processing semantics and preventing data duplication during regional failover.
- Reduced Kafka consumer churn and rebalance failures by enabling static group membership and optimizing timeout configurations based on deep performance analysis.
- Improved Developer Experience (DX) by updating configuration to provide self-service access to Aiven infrastructure secrets, enabling team leads to troubleshoot multi-region Kafka connectivity without requiring DevOps intervention.
- Automated comprehensive end-to-end regression testing pipelines , ensuring stable releases across Dev, Stage, and Production environments.
- Drove front-end feature development for a Centralized Enterprise Service Management UI, providing users with a unified application to manage five notification types (email, webhook, SMS, push, fax).
- Spearheaded usability enhancements for an internal UI, streamlining user workflows for email and webhook management, including detailed updates to side navigation, filter modals, and notification flyouts.
- Managed CI/CD pipelines with GitHub Actions and Azure DevOps, ensuring smooth, high-quality deployments across environments.
- Rotated serving as the Scrum Master to manage the full development lifecycle, driving QA

initiatives that maintain a strict 95%+ code coverage requirement for all services.

Junior Software Engineer | WEX | Remote | August 2021 – October 2023

- Engineered granular access control across a Core Internal Notifications Platform API, implementing role-based security (RBAC) and data segregation filters to protect sensitive endpoints.
- Led the full technical re-write of the Mission-Critical API Deployment Tool from legacy Angular to React/TypeScript, resolving chronic maintenance issues and enabling Sentry error integration.
- Designed and maintained cloud-based microservices in Python and C#, focusing on event-driven architectures (Kafka) for high-volume data processing.
- Built and integrated API services in Python with front-end applications, designing RESTful APIs for the Notification Hub.
- Contributed to the design and deployment of front-end components using React, Redux, and Tailwind CSS.

Freelance Web Developer | Self-employed | March 2021 – Present

- Designed and implemented the Professional Puppy Profile Redesign for a niche dog training website, creating a premium client experience with 7 modular React components (e.g., Investment Breakdown, Personality Radar) and applying a sophisticated design system to justify premium pricing (\$6K-\$15K).
- Drove full-stack modernization and cost optimization by migrating the email service from SendGrid to AWS SES, resulting in a significant cost reduction (to \$sim\$0.10\$ per 1,000 emails) and unifying infrastructure.
- Currently working on an enhancement for a universal video player and video management system supporting multiple platforms (YouTube, TikTok, Facebook) to increase user engagement and deploy over 50 videos across both client sites.
- Managed the end-to-end development cycle for two active websites (www.todostranslator.com and www.buyatrainedpuppy.com), including React/Django API integration, deploying GA4 analytics, and optimizing 100+ images using django-imagekit for performance.

Facilitator | Kenzie Academy | Remote | January 2021 – August 2021

- Guided students through problem-solving and programming challenges in a remote learning environment.
- Provided mentorship through code reviews and workshops, helping students improve coding fundamentals.

EDUCATION

Kenzie Academy | Certificate in Front-End Software Development | July 2020

Kenzie Academy | Certificate in Back-End Software Development | January 2021

Eastern Illinois University | Bachelor of Science in Biological Science | May 2017

REFERENCES

Available upon request.