

Dusty Mumphrey

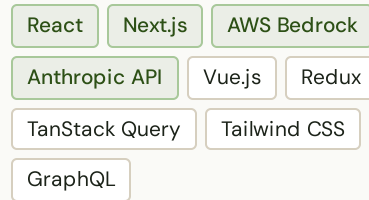
SENIOR SOFTWARE ENGINEER | FULL STACK & AI-INTEGRATED SYSTEMS

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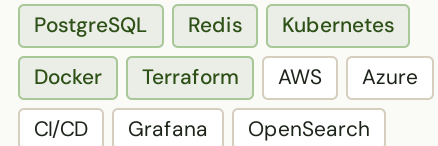
LANGUAGES & BACKEND



FRONTEND & AI



DATA & INFRASTRUCTURE



SUMMARY

Senior Software Engineer with 9+ years delivering full-stack systems from schema to production, with a strong product and customer-first instinct. Experienced across Python backends, React frontends, PostgreSQL, Redis, and Kubernetes — and equally comfortable moving between them within the same sprint. Built and launched a live AI-integrated SaaS product solo from idea to public release, validating product-market fit with real users and real revenue. Proven at mentoring junior engineers, leading design reviews, and partnering directly with product managers to translate business requirements into shipped features. Austin-based and energized by early-stage, high-velocity environments.

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Aug 2025 - Present

ReptiDex Remote

- Took a full-stack SaaS product from concept to public iOS App Store and web launch in 8 months as sole engineer. Reached 100 registered users and 285 animals tracked in 51 days, with 54% Day-1 activation and 20% Day-30 retention — with no team and no marketing budget.
- Built the complete Python/FastAPI backend with PostgreSQL, a React Native/TypeScript iOS app, and a Next.js web frontend. Integrated AI-powered genetic breeding predictions using AWS Bedrock, delivering recommendations across 20+ species.
- Designed, measured, and iterated on features based on direct user feedback and in-product analytics — 429 feedings logged and 20% Day-30 retention demonstrate feature engagement well beyond initial signup.
- Operated self-hosted Grafana/Prometheus monitoring, zero-downtime CI/CD via GitHub Actions, and full infrastructure on AWS as sole on-call engineer across all environments.

Full-Stack Consultant

Jan 2017 - Dec 2025

Self-Employed / Built By Dusty Remote

- Built Scrollbook (2024–2025): a full-stack AI platform with a Next.js 15 / React 19 frontend, 6-service Python/FastAPI backend, PostgreSQL, Redis, and Celery. Grew to 1,000+ active users across 867 Discord servers in under a year. Validated product-market fit before bootstrapped infrastructure costs exceeded runway.
- Integrated Anthropic API with a custom prompt caching schema, reducing API costs by 90%. The caching pattern was extracted into a reusable library carried across multiple subsequent production applications.
- Delivered full-stack applications for 20+ clients in Python, TypeScript, and JavaScript across e-commerce, SaaS, and data-heavy verticals. Built AI inference models for image classification achieving greater than 90% accuracy.

Full Stack Engineer / Data Scientist

Sep 2025 - Dec 2025

GovStar (Contract) Remote — CBP, ICE, FEMA

- Architected event-driven data pipelines to ingest, normalize, and store federal agency data in Neptune Graph DB, replacing a 309-column manual process taking 1–2 workdays with an automated pipeline completing in approximately 15 minutes.
- Redesigned a monolithic star schema into a graph database model, improving query performance for heavily interconnected multi-million-row datasets. Delivered unified analytics dashboards across CBP, ICE, and FEMA using Snowflake, SageMaker, Collibra, and Tableau.

Senior Engineer

Feb 2024 - Jun 2025

DealerOn Remote

- Collaborated directly with product managers to define, refine, and deliver a "For You" personalization feature across a 10-service micro-frontend architecture. Conducted three stakeholder presentations, drove architecture adoption, and achieved 87% dealer enrollment and a 20%+ increase in customer acquisition rate.
- Led a team of 7 developers, serving as the primary code and design review voice. Drove Docker containerization across the engineering org and established team-wide standards for testing, documentation, and architecture.
- Raised unit test coverage from approximately 50% to 85% across 10 services in 6 weeks, enforcing SonarQube quality gates. Caught a mis-ordered payments-fee calculation before production, averting a multi-million-dollar billing error. Mentored junior engineers through the initiative.

Role eliminated Jun 2025 in a company-wide RIF.

Full-Stack Engineer

Nov 2022 - Feb 2024

Clockwork Remote

- Delivered full-stack features for clients across healthcare, government, insurance, and retail. Worked directly with clients and product teams to translate requirements into well-estimated sprints and shipped solutions on time and on budget.
- Authored architecture RFCs and sequence diagrams for patient intake and billing flows. Containerized services with Docker on Azure Kubernetes Service. Reduced CI/CD pipeline time by 30%. Mentored junior developers and established reusable patterns across the engineering team.

Reliability Engineer

Jan 2021 - Oct 2022

Vault Health Austin, TX

- Built Python/FastAPI services and React frontends for a national-scale healthcare platform processing millions of COVID tests weekly across multi-region Kubernetes clusters. Maintained full HIPAA and SOC2 compliance and a less than 1% incident rate.
- Diagnosed production failures in Celery task queues and encrypted data pipelines. Introduced retry logic and circuit breakers that improved system reliability by 25%. Delivered Grafana dashboards enabling proactive detection of system issues before customer impact.

Role eliminated Oct 2022 following wind-down of COVID operations.

EDUCATION

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- Microsoft Certified: Azure Developer Associate

COMPETENCIES

- Full-Stack Product Delivery
- AI Integration & Prompt Engineering
- Early-Stage Execution & PMF Validation
- Technical Mentorship & Code Review
- Cross-Functional PM & Design Collaboration
- Production Operations & On-Call