

Dusty Mumphrey

Senior Full Stack Software Engineer

Austin, TX

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Full Stack Software Engineer with 8+ years building production-ready code using React, Next.js, TypeScript, Python, and modern JavaScript frameworks. Proven expertise designing and implementing RESTful and GraphQL APIs, taking ownership of technical initiatives from start to finish, and shipping consumer-facing websites and internal tools in fast-paced environments.

Passionate about building consumer-facing products that make an impact, with proven ability to ship quickly, test and learn, and take ownership of entire stack. Experienced working in fast-paced environments with high level of autonomy and cross-functional collaboration.

CORE COMPETENCIES

- React
- Python
- PostgreSQL
- Next.js
- GraphQL APIs
- Microservices Architecture
- TypeScript
- RESTful APIs

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer / Data Scientist

Sep 2025 – Present

GovStar

Remote

- Designed and implemented automated reporting pipeline using Python and event-driven architecture, replacing labor-intensive manual process (4+ email exports, 309-column spreadsheets) and saving hours weekly for analytics teams
- Architected event-driven queues to ingest, preprocess, and normalize data in Neptune Graph DB, enabling real-time reporting and eliminating manual uploads
- Drove infrastructure modernization from legacy systems to cloud-native architecture (Snowflake, SageMaker, Tableau), empowering analysts with self-service BI and interactive dashboards

Senior Engineer

Feb 2024 – Jun 2025

DealerOn

Remote

- Led team of 7 developers to improve test coverage across 10 micro-apps from ~50% to 85% in 6 weeks, adding 50–75 meaningful tests per app and enforcing code quality gates—catching critical logic errors before production
- Designed and implemented event-driven personalization engine using TypeScript, Vue.js, and Azure Service Bus, powering dynamic vehicle recommendations and achieving 87% dealer enrollment
- Increased dealership acquisition rates by 20% through improved personalization features and user-focused design, unlocking new paid service revenue stream
- Collaborated with Product Managers and designers to plan, design, and implement business requirements for consumer-facing websites and internal tools
- Launched Backstage documentation initiative (100+ pages), reducing onboarding friction and establishing best development practices and guidelines across engineering org

Full-Stack Engineer

Nov 2022 – Feb 2024

Clockwork

Remote

- Built reusable architectures for cross-platform admin portals in React and Vue.js, mentoring junior developers and performing code reviews to maintain quality standards
- Drafted API schemas and integrated with .NET and Flask backends, designing and implementing RESTful APIs to support multi-region user workflows
- Containerized services with Docker, deployed on Azure Kubernetes Service, and accelerated CI/CD pipelines by 30% via caching and parallel builds
- Collaborated directly with stakeholders across government, insurance, and ecommerce sectors to turn requirements into actionable sprints and ensure seamless, on-budget delivery

Reliability Engineer

Jan 2021 – Oct 2022

Vault Health

Austin, TX

- Built Python and FastAPI services alongside React front-ends, implementing GraphQL APIs for patient billing and lab systems supporting millions of clinical tests weekly
- Deployed comprehensive monitoring and alerting across multi-region Kubernetes clusters, maintaining <1% incident rate and enabling proactive detection of production issues
- Defined deployment playbooks, led UAT with clinical and operations teams, and orchestrated zero-downtime releases for HIPAA- and SOC2-compliant systems

- Personally built and operate 4 live enterprise products as sole engineer: Scrollbook (1000 active users), ReptiDex (137 beta users), Geckistry (\$4k/month revenue), demonstrating ownership of technical initiatives from start to finish
- Shipped Scrollbook from idea to beta in 2 months: React 19/Next.js 15 web app, 6 FastAPI microservices, PostgreSQL database, AWS CDK infrastructure—all personally designed, developed, deployed, and monitored
- Set up comprehensive CI/CD pipelines (local → dev → staging → prod) enabling rapid iteration with zero-downtime deployments, shipping advanced features in 3-4 weeks
- Designed and implemented RESTful and GraphQL APIs for multi-tenant SaaS applications with real-time event-driven features and comprehensive monitoring

PROJECTS

Scrollbook (D&D AI Assistant)

2024

Live D&D platform with Discord bot, web app, and REST API serving 1000+ active users. Shipped from idea to beta in 2 months as sole engineer. Technical architecture: 6 FastAPI microservices, Next.js 15/React 19 web frontend, PostgreSQL 16 with async SQLAlchemy, Discord.py bot, AWS CDK infrastructure. Demonstrates rapid shipping, full-stack development (design, backend, frontend, infrastructure), and product thinking.

ReptiDex

2023 – Present

Genetics-first reptile pedigree and breeding management platform with advanced lineage tracking and AI-powered genetic predictions. Built as multi-tenant SaaS with 6 microservices: event-driven communication via AWS SNS/SQS, database-per-service isolation, Next.js frontend, FastAPI backend, PostgreSQL, Redis, Docker deployment, and Stripe integration. Demonstrates microservices architecture expertise and ownership of technical initiatives from start to finish.

AI-Powered Job Application Chrome Extension

2025

Chrome extension that streamlines job applications by automatically extracting job descriptions from major job boards and generating tailored resumes using AWS Bedrock Claude AI. Built with vanilla JavaScript following Manifest V3 standards, integrated with FastAPI backend deployed on AWS ECS Fargate. Implements background service workers, robust error handling, and automatic file organization. Reduces application time by 80%+.

TECHNICAL SKILLS

React

Next.js

TypeScript

JavaScript

Python

FastAPI

Flask

GraphQL

RESTful APIs

PostgreSQL

Redis

Docker

Kubernetes

AWS

Azure

Microservices Architecture

CI/CD

GitHub Actions

Terraform

Vue.js

Event-Driven Architecture

EDUCATION

Bachelor of Science in Computer Science

University of Texas at Austin
2019

CERTIFICATIONS

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