

Dusty Mumphrey

Senior Software Engineer – Full Stack

Austin, TX

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Senior Software Engineer with 8+ years building impactful healthcare and enterprise systems. Proven expertise in Python, Django, React, and TypeScript across frontend, backend, platform, and cloud infrastructure. Delivered scalable solutions supporting millions of users while mentoring teams and driving technical excellence through clean code and robust architecture.

Passionate about building healthcare technology that eliminates administrative friction and improves patient outcomes. Proven track record delivering HIPAA-compliant systems, mentoring engineering teams, and shipping high-impact features in fast-paced startup environments.

CORE COMPETENCIES

- Python & Django
- Healthcare Technology
- Technical Mentorship
- React & TypeScript
- Microservices Architecture
- Product-Driven Engineering
- Full-Stack Development
- Cloud Infrastructure (AWS & Azure)

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer / Data Scientist

Sep 2025 – Present

GovStar

Remote

- Led data modernization initiatives across federal healthcare systems (CBP, ICE, FEMA), architecting cloud infrastructure with Python, AWS, and event-driven architecture to unify analytics platforms supporting millions of records
- Developed automated reporting pipeline using Python and PostgreSQL, replacing manual 309-column spreadsheet process and saving operations teams hours weekly while ensuring data accuracy
- Architected event-driven queues to ingest and normalize data in real-time, enabling immediate reporting capabilities and eliminating manual uploads for analytics teams
- Drove infrastructure modernization from legacy systems to cloud-native architecture (Snowflake, AWS SageMaker), empowering analysts with self-service BI tools and reducing query times by 40%

Senior Engineer

Feb 2024 – Jun 2025

DealerOn

Remote

- Led team of 7 engineers to improve test coverage from 50% to 85% in 6 weeks, implementing comprehensive testing strategy that prevented critical production issues and ensured code quality across 10 microservices
- Architected and implemented event-driven personalization engine using Python, TypeScript, and Azure Service Bus, achieving 87% dealer enrollment and unlocking new revenue stream while increasing acquisition rates by 20%
- Containerized microservices with Docker, streamlining deployment pipelines and improving scalability across engineering organization
- Launched technical documentation initiative (100+ pages), reducing onboarding time and establishing best practices for frontend and backend development with React and Django patterns

Full-Stack Engineer

Nov 2022 – Feb 2024

Clockwork

Remote

- Mentored junior developers while building reusable architectures for cross-platform admin portals using React and Vue.js with TypeScript, improving development velocity and code consistency
- Designed and integrated REST APIs with Python Flask and .NET backends, supporting multi-region healthcare workflows with secure JWT authentication and RBAC
- Containerized services with Docker and deployed on Azure Kubernetes Service, accelerating CI/CD pipelines by 30% through caching and parallel builds
- Collaborated directly with healthcare, government, and ecommerce clients to deliver tailored solutions using Python, JavaScript, TypeScript, PostgreSQL, ensuring on-time, on-budget delivery

Reliability Engineer

Jan 2021 – Oct 2022

Vault Health

Austin, TX

- Managed HIPAA-compliant healthcare systems supporting millions of clinical tests weekly using Python, Flask, and GraphQL across multi-region Kubernetes clusters, maintaining <1% incident rate
- Built Python FastAPI services and React frontends for patient billing and lab systems, ensuring zero-downtime releases through comprehensive deployment playbooks and UAT coordination
- Implemented real-time messaging queues for COVID test tracking with Python and Celery, managing HL7 data flows for accurate patient portal mapping and improving data pipeline reliability by 25%
- Developed Grafana dashboards for monitoring application metrics, enabling proactive issue detection and maintaining system availability for nationwide telehealth platform

- Delivered 20+ custom full-stack applications using Python, JavaScript, TypeScript, and cloud infrastructure for diverse clients including healthcare, ecommerce, and analytics platforms
- Built scalable enterprise applications with microservices architecture, coordinating deployments via Terraform and ensuring reliable infrastructure across AWS and Azure environments
- Developed AI-powered solutions using Python and OpenAI APIs, achieving >90% accuracy in classification models and real-time data processing for financial tracking applications

PROJECTS

Cipher (D&D AI Assistant)

2024

Built comprehensive AI-powered platform with Discord bot, web app, and API using Python, FastAPI, React, TypeScript, and PostgreSQL. Architected 6-microservice system leveraging AWS Bedrock and Claude AI for context-aware assistance. Active with 8+ weekly users, demonstrating scalable full-stack architecture with real-time features and async processing. Implemented prompt caching patterns reused across multiple production applications.

ReptiDex

2023

Developed multi-tenant SaaS platform for reptile tracking using Python, FastAPI, Next.js, TypeScript, and PostgreSQL with Redis caching. Architected high-RPS microservices handling 103+ beta users with AI-driven genetic prediction, payment processing via Stripe, and community features. Built scalable infrastructure with Docker containerization, demonstrating full-stack expertise and product-driven development.

TECHNICAL SKILLS

Python

Django

React

JavaScript

TypeScript

FastAPI

Flask

PostgreSQL

GraphQL

REST APIs

Docker

Kubernetes

AWS

Azure

Microservices

Event-Driven Architecture

CI/CD

Git

TDD

Terraform

EDUCATION

Bachelor of Science in Computer Science

University of Texas at Austin
2019

CERTIFICATIONS

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