

# Brett Gardiner

SOFTWARE ENGINEER

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## Professional Summary

Senior Software Engineer with 8+ years architecting scalable systems that handle hundreds of thousands concurrent connections. Expertise in real-time IoT infrastructure, distributed systems, and modern web applications using Go, TypeScript/React, Elixir, Python, and Rust.

## Work Experience

### PDQ.com

*Salt Lake City, Utah*

SENIOR SOFTWARE ENGINEER

*Feb. 2018 - PRESENT*

- Architected and delivered enterprise-scale SaaS platform using Elixir, Phoenix, React, Postgres, ClickHouse and distributed Rust agent architecture, driving 300% sales growth within 6 months of release and establishing technical foundation for company expansion
- Tech lead for optimizing of real-time IoT communications infrastructure supporting 500,000+ concurrent connections through advanced pubsub and queuing systems, GenServer and concurrency patterns, and performance tuning orchestrated in a production Kubernetes cluster
- Drove technical expansion of product portfolio and engineering team to support company acquisition strategy, onboarding polyglot services from acquired products in C#, Python, Go, and Node.js
- Spearheaded modernization of legacy systems with Node.js and multiple third-party integrations, successfully replacing C# application and implementing comprehensive automated testing suite and modern CI/CD pipeline

### ForwardMomentum LC

*Lehi, Utah*

SENIOR SOFTWARE ENGINEER (FREELANCE)

*Aug. 2021 - Feb. 2022*

- Developed real-time healthcare communication platform using Google Firebase, enabling secure instant messaging between healthcare providers and patients
- Designed and implemented CI/CD pipeline, transitioning from manual deployments to automated continuous delivery with comprehensive testing

### Crossroads Technologies

*Salt Lake City, Utah*

SOFTWARE ENGINEER

*May 2017 - Feb. 2018*

- Engineered enterprise learning management system using Angular 4, Python, Django REST Framework, and PostgreSQL, ensuring HIPAA and HITRUST compliance for healthcare industry
- Delivered greenfield product from concept to market in record time, establishing foundation for new business vertical

## Education

### Brigham Young University

*Utah*

B.S. IN NEUROSCIENCE

*2011 - 2015*

- Concentrated in computational neuroscience and neuroimaging analysis, developing strong foundation in data processing, statistical analysis, and scientific computing
- Developed Python data processing pipelines and automated segmentation algorithms for large-scale neuroimaging datasets in Alzheimer's research, utilizing specialized Linux software (FSL, FreeSurfer, AFNI)

## Let's talk about

<b>Development</b>	TypeScript, Go, SQL, Elixir, Python, Node, Rust, React, Next.js, Scaling, Self-hosting, Testing
<b>Tools</b>	Git, Linux, Postgres, Ansible, Docker, Kubernetes
<b>Hobbies</b>	Linux, Homelab, Hiking, Camping, Biking, Pickleball