Robert Grayson

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Work Experience

Senior Software Engineer, PepsiCo   January 2022 – Present   New York City, NY

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- Building sales intelligence internal tooling using Elixir/Phoenix, LiveView, D3, PostgreSQL, Snowflake, and Apache Druid
- Developing data analytics platforms for executive intelligence reporting
- Architecting large-scale Elixir & Phoenix applications
- Implementing ETL processes and database optimization

Senior Software Engineer, Quantierra January 2020 – January 2022 New York City, NY

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- Worked on ETL processes and data scraping systems
- Implemented entity resolution algorithms and database optimization
- Developed comprehensive testing frameworks
- Built scalable data processing pipelines

Education

B.A. in Computer Science, *Bowdoin College*   May 2001   *Brunswick, Maine*

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Professional Development Program, *Recurse Center* Spring 2015 *New York City, NY*

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- Self-directed programmer retreat focused on open source and deep technical skill-building

Projects

0.1 Architecting Large Elixir & Phoenix Applications

Elixir, Phoenix, PostgreSQL, LiveView *2022-2024*

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- Large-scale application architecture for enterprise systems at PepsiCo.

- Designed and implemented scalable Elixir/Phoenix applications

- Built sales intelligence tooling with real-time data processing

- Integrated with Snowflake and Apache Druid for analytics

0.2 Sales Intelligence Internal Tooling

Elixir, Phoenix, LiveView, D3, Snowflake, Apache Druid *2022-Present*

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- Executive intelligence reporting platform for PepsiCo sales analytics.

- Built comprehensive sales analytics dashboard with real-time data visualization

- Integrated multiple data sources including Snowflake and Apache Druid

- Developed interactive charts and reports using D3.js and LiveView

Skills

Programming Languages

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- Elixir

- Ruby

- JavaScript

- Objective-C

- SQL

- Python

- Bash

Frameworks & Libraries

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- Phoenix

- LiveView

- Rails

- GraphQL

- Backbone

- OTP/GenServer

Data & Analytics

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- Snowflake

- PostgreSQL

- Data Warehousing

- ETL Pipelines

- Analytics

Infrastructure & DevOps

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- Kubernetes

- Docker

- AWS

- CI/CD

- Linux

- Git

- Monitoring

Leadership & Management

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- Team Management

- Technical Mentoring

- Architecture Design

- Agile

- Code Review