

# Robert Grayson

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## Work Experience

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

- 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, Quantiera**    **January 2020 – January 2022**    **New York City, NY**

- 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

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**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*

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

## Projects

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## 0.1 Architecting Large Elixir & Phoenix Applications

*Elixir, Phoenix, PostgreSQL, LiveView*

*2022-2024*

- 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*

- 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

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### Programming Languages

- Elixir
- Ruby
- JavaScript
- Objective-C
- SQL
- Python
- Bash

### Frameworks & Libraries

- Phoenix
- LiveView
- Rails
- GraphQL
- Backbone

- OTP/GenServer

## **Data & Analytics**

- Snowflake
- PostgreSQL
- Data Warehousing
- ETL Pipelines
- Analytics

## **Infrastructure & DevOps**

- Kubernetes
- Docker
- AWS
- CI/CD
- Linux
- Git
- Monitoring

## **Leadership & Management**

- Team Management
- Technical Mentoring
- Architecture Design
- Agile
- Code Review