Zachary Walters

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Detail-oriented Software Engineer with 7+ years of experience developing scalable backend systems, data pipelines, EdTech assessment systems, and financial modeling tools. Skilled in Go, Java, AWS, and data infrastructure, with a strong track record of delivering reliable solutions for high-impact platforms. Adept at collaborating across teams to create tools that drive smarter business and educational outcomes.

Experience:

Pearson (MZD – Pearson) – Software Engineer   Oct 2021 to present

- Maintaining and engineering new features in modern academic assessment platforms
- Extending and integrating reporting capabilities in academic assessment platforms
- Creating and maintaining rostering and services and integrations
- Engineering concurrent services and APIs with Go
- Optimizing and maintaining ETL processes, reducing data processing time and cost using Redshift and Glue
- Engineering columnar storage solutions for fast data analytics
- Working with Product Managers to deliver assessment features to clients
- Maintaining Jenkins pipelines
- Core Technologies: Go, Postgres, Redshift, Docker, Jenkins, Spark, SQS, Kenesis

New Constructs, LLC – Software Engineer   Jun 2017 to Oct 2021

- Co-designed and implemented complex financial models
- Maintained a monolith web application written in Java
- Building data aggregation and analytics software
- Manage data access, generation, and storage
- Contributed to internal system development and operation
- Working with financial analysts to build tools for smarter investing
- Core Technologies: Java, Postgres, Python, Docker

Crystal Clear Fiber, LLC – Junior Software Engineer   Feb 2015 to Jun 2017

- Full stack web app development
- VPC administration with Amazon Web Services
- Core Technologies: PHP, Javascript, MariaDB/MySQL

Genesco Inc – Intern Software Engineer   Apr 2014 to Feb 2015

- Used Javascript and Oracle RDBMS to create internal financial webforms

Education:
Bachelors of Computer Science
Minor in Mathematics
Middle Tennessee State University
Spring 2014

References:
Submitted upon request