Howard Dean Watts
Staff Software Engineer

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Employment History

Chronograph Private Equity

Founding Staff Software Engineer *2017 - Present*

+ Developed automation tools, including custom microservices and machine learning-powered AWS Lambda functions, significantly improving internal workflows. In a case study reduced a task processing time from 2.5 hours per document to just 1 minute.

+ Designed, built, and maintained a high-performance Excel plugin, now used by thousands of employees at leading global fund managers.

+ Engineered scalable, high-quality features to extract and transform a dataset encompassing over $29 trillion in assets, enhancing data accessibility and analysis.

+ Established foundational best practices for codebase architecture, API design, data security, and employee onboarding, scaling the company from a 3-person startup to a 120-employee enterprise.

StructuredWeb

Lead Software Engineer *2016 - 2017*

+ Led an overhaul of our codebase to prepare for a security audit, making over 26,000 individual improvements across 2,134 files over a 2 month period in order to prevent XSS, CSRF, and SQL Injection attacks.

+ Delivered features for high profile clients such as Intel and Amazon in .NET, C#, and ColdFusion.

Projects

WordTree - A Daily Word Puzzle

Available at WordTree.app *2023*

+ Designed, developed, and distributed a daily word puzzle game with over 1,000 monthly active users.

+ Built using React Native and Expo to build for iOS, Android, and the web with one codebase.

Professional Skills

Technical Skills

TypeScript   SQL   Python   C#   React   Node   AWS   NextJS   .NET   ColdFusion

Soft Skills

Communication   Product Planning   Product Design   Engineer Development   Team Growth