David K Johnson

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# Objective

Accomplished developer looking for a position where my experience in software design and implementation can provide innovative customer-driven solutions. I want to help a company achieve its organizational goals by applying my skills in effective data analysis and utilization.

# Professional Skills and Accomplishments

**Software development**

* Authoring business and scientific computing packages
* Programming in x86 assembly, C++, C#, Rust, JavaScript and Golang
* Using frameworks such as .NET Core, NodeJS and PyTorch
* Producing flexible, customer-driven, scalable solutions

**Database Integration**

* Integrating SQL and other relational databases with end-user applications to streamline workflows
* Creating web-based applications to access SQL databases through RESTful APIs
* Writing code for the detection and rejection of inauthentic traffic

**Data Analytics**

* Analyzing data to detect patterns and anomalies
* Working with raw data and ensuring that it is accurately represented in various formats
* Developing procedures and code to validate input

**Communication**

* Presenting information in written, verbal and visual form customized to a targeted audience
* Accurately documenting bugs and issues within issue tracking systems such as Jira
* Effective writing of project, code and end-user documentation
* Listening to others when they communicate, asking questions to better understand

**Major Projects**

* Medical records retrieval system – scanning, storing and indexing medical records and images into a SQL-backed application reducing access times from hours to 3–4 minutes
* Real estate title settlement system – tracking title applications through the process of closing, presenting each user with the necessary information to facilitate efficient processing
* Check processing service – handling bad check and other consumer debt information, sending notices, tracking payments, and producing auditable records for further actions
* Construction bid estimator – Monte Carlo simulation for forecasting construction costs, improving bid accuracy and allowing for detailed what-if analysis
* Seismic data collection and analysis system – collecting, storing and analyzing real-time seismic sensor readings for predicting adverse events
* Volunteer Fire dispatching system – producing maps for first responders detailing hazards and on-site resources and improving outcomes -- credited with saving 15 lives and $10 million in property damage in the first five years.

# Work History

Auctoritas, 2021 – 2023
Software Development Engineer

Rainard School for Gifted Students, 2008 – 2018
High School Math and Science Teacher

Computer and Technology Solutions, 1990 – 2003
Programmer Analyst

# Education

MS in Mathematics, University of Houston, 2007,
Included coursework in Analysis, Topology, Statistics, and Numerical Methods

BS in Mathematics, University of Houston, 2005,
Minor in Computer Science

# Languages

Fluent in English, spoken and written
Proficient in Korean, spoken and written

# Skills

Languages: x86 assembly, C++, C#, JavaScript, TypeScript, Rust, Scala, Golang
Frameworks: NodeJS, jQuery, PyTorch, .NET Core
Tools: Windows, MacOS, Linux, Unix, Git
Databases: SQL (PostgreSQL, MySQL, CockroachDB), NoSQL