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.

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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