

Paul Raab

Denver, CO

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary of Qualifications

- **Software Development:** Strong experience using computer technology to solve data management, processing, analysis, and visualization problems. Proficient in requirements gathering, functional design, coding, and testing applications and user interfaces for large systems. Practical understanding and effective implementation of software engineering methodologies. I am a big fan of agile methodologies, the scrum framework, and other quality techniques to improve software. Excellent technical writing and editing abilities. Good leadership and team building skills.
- **Web Development:** Proficient in developing dynamic web pages using front-end, middle tier, and back-end software technologies. Full stack development.
- **Scientific and Visualization:** Skilled in developing and implementing scientific data processing, marine and airborne navigation applications, GIS, and numerical interpretation algorithms. Strong background in developing graphic systems for displaying and manipulating analytical data.
- **Database:** Experienced with designing and developing database applications. Proficient in complex systems data modeling. Experienced with database administration and performance tuning.
- **Systems Administration:** Experienced in administering Linux, Windows, and UNIX networked systems.
- **Customer Interaction:** Excellent oral and written communication skills. Extensive experience working with customers in areas of requirements gathering, design validation, training, and post-installation support.
- **Primary Technology Stack:** Java, HTML/CSS, JavaScript, React, Node/Express, SVG/D3, Spring Framework, Scripting languages, C/C++, FORTRAN. SQL/NoSQL databases. Cloud developer, AWS. Eclipse, NetBeans, Visual Studio Code. Unix/Linux, Windows.

Work Experience

Empower Retirement – Greenwood Village, CO

Developer 2019 - Present

- Migrating a legacy MS Access/SQL Server application to the AWS Cloud
- Designing and developing full-stack financial application using Express/node, JavaScript and React.

Raab Enterprises LLC. - Littleton, CO

Software Consultant 2017 - Present

- Providing custom software solutions for new and legacy systems using Java and web technologies.
- Designing and developing full-stack GIS and CAD applications using Java and Spring MVC.
- Developing a Coordinate Transformation and Mapping application using React, Express/Node.js, SVG/D3, MongoDB and MySQL.

CGG – Denver, CO

Software Engineer 2013 – 2017

- Upgraded large, commercial, legacy software system written primarily in C/C++, FORTRAN and XWindows/Motif into a next generation integrated system based on Java, C/C++, QT, and XML.
- Designed and developed data processing and interpretation, navigation, and airborne flight planning applications software to support airborne surveys in coordination with scientific exploration teams.
- Systems administrator.

Fugro, Inc. – Denver, CO

Software Engineer 2001 -2013

- Designed, developed, tested, and documented scientific software used to process and interpret geophysical data for Oil & Gas exploration.
- Assisted with marketing and sales efforts.
- Provided customer support.
- Website administrator for LCT Gravity & Magnetism division.

Oracle Corporation – Denver, CO

Senior Systems Application Developer - 1999 - 2001

- Member of a team responsible for the development and enhancement of the Oracle Energy Production Management system.
- Maintained and enhanced the primary server application for the group, a C/C++ based network allocation engine.
- Designed and developed Java/XML based server and interface components for a real-time data acquisition and database storage/retrieval system.
- Worked as a consultant to customers on special projects.

E d u c a t i o n

University of Wisconsin – Milwaukee
BA – Geology

SUNY at Stony Brook, NY
MS – Earth and Space Sciences

M e m b e r s h i p s

ACM

BSA – Eagle Scout, Scoutmaster, Silver Beaver