

Kanna Vairavan

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Technical professional with 22-year track record of innovation and success creating and managing enterprise software-based solutions in the Oil & Gas industry

Innovative thinker and highly skilled programmer; able to work with tight deadlines and manage competing priorities; an ultimate team player with an impeccable work ethic. Solely created and managed several Canned & Custom allocation software based on business needs. Proficient understanding of oil & gas upstream and midstream production accounting. Utilized strong background in architecture and technical standards, design and development tools contribute to revenue growth through delivery of multi-tier production accounting allocation applications.

Core Competencies:

- Client/Server-Side Application Development
- Strategic Problem Resolution
- Creative and innovative
- Data Analytics
- Integration with third party software
- Software Solution Architect
- Requirements Definition
- Problem Resolution / Troubleshooting
- Managing Vendor Partners
- Full Life Cycle Project Management

Professional Experience

Critical Control Energy Services - (Houston, Texas)

2020-2021

Manager, Technical Allocations - (2020 – 2021)

Assessed CCES production allocation software
Developed basic allocation calculation based on API and GPA standards.

SPL - (Houston, Texas)

1998 – 2020

Sr. Software Developer - (2017 – 2020)

Take projects from original concept through final implementation, interface with all areas affected by the project including end users, computer services, and client services. Responsible for all aspects of the development and implementation of assigned projects and provides a single point of contact.

Allocation Information Management System - SurePhase

- Managed delivery of SAAS cloud based complex multi-tiered component-based allocation software across all products Oil, Gas, water and NGL using Angular, Bootstrap, MVC, C#, Assure SQL server & Cosmos database
- Lead contact with solution architect to identify and develop project scope and objectives as well as documentation for each product
- Worked as the liaison between SPL and vendor, managing relationship with developer team
- Managed Azure DevOps scrum boards with all developers' questions
- Ensured quality and functionality of vendor deliverables by conducting unit testing

Gas Allocation Management System, NGL Bank & Gas processing plant allocation

- Designed, developed, implemented and manage several custom NGL allocation software for several high-profile clients
- Generated NGL settlement statements based on gas gathering and processing agreement.

Programmer - (2003 – 2017)

Architect, Designed, developed and implemented several high profile complex multi-tiered gas allocation applications for 12 Deepwater Hub platform allocation and 7 Shale projects using .Net, visual basic 6, SQL, MS Access and Excel

Gas Allocation Management System, NGL Bank & Gas processing plant allocation

- Create UI and Developed monthly/ daily complex component-based gas allocation for SPL'S most prestigious clients
- Generated QA tools to analyze source data and the end results to ensure quality of the allocation
- Generated several reports and custom electronic data deliverables based on the client needs.
- Developed and maintain Discovery Gas Pipeline and Gas Plant Projects, Mississippi Canyon Pipeline Project, Nautilus Pipeline gas plant processing projects
- Developed and maintain 3 pipeline NGL banks in the Gulf of Mexico.

Junior Programmer - (1998 – 2003)

Architect, Designed, Developed and implemented complex project for offshore, Deepwater and Shale liquid allocation management system with industry standard using Visual Basic as frontend, MS Access, SQL as backend tools

Liquid Allocation Management System (Main)

- Created liquid allocation management system to verify theoretical oil production at various location Metering point
- Managing Main application for 20 plus years across 80 plus projects
- Developed Com integration with a third-party process simulation software for phase change calculation
- Gathered oil, gas and water volumes from client as EDD for government and client reporting
- Created object-oriented forms for all data entry needs and performed volumetric oil allocation
- Generated QA tools to analyze source data and the end results
- Generated several caned MS Access reports and electronic data deliverables

Field Information Management System (FIMS)

- Contributed to development of offshore Platform field data capture, work order tickets automation by technician platform schedule and meter calibration and master meter proving technique

Technical Proficiencies

Tools: HTML5, CSS3, JavaScript, Bootstrap, Foundation, jQuery, Node.js,

Express.js, React.js, C#, VB.NET, Visual Basic 6, Microsoft Excel

Database: SQL Server, MySQL, MongoDB, Microsoft Access

Repository: GitHub, Azure DevOps

Education and Credentials

Bachelor of Science in Statistics, 1995 – Barathiyar University, Coimbatore, TN, India

Full-stack web development certification - Coding Boot Camp, 2021 -- UT Austin.