

# ATHUL KRISHNAN UG

## Software Developer

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### Summary

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Frontend Developer with 3 years of experience building scalable, high-performance web applications in Angular, React, and Vue. Proven track record of delivering production-ready solutions for enterprise clients in the oil & gas sector, including Halliburton and Exebenus. Skilled at transforming manual, time-intensive workflows into efficient digital platforms that improve data quality, accelerate operations, and enhance user experience. Adept at working across the full development lifecycle—from requirements gathering to deployment—while collaborating with cross-functional teams in Agile environments. Passionate about crafting clean, maintainable code and leveraging modern JavaScript frameworks to solve complex business challenges.

### Skills

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**Languages:** JavaScript, TypeScript

**Frameworks:** Angular, React, Vue

**Other Technologies:** HTML5, CSS, PrimeNG, EJS, Git, Git Extension, Chakra UI etc...

### Experience

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**Software Developer**

August 2025 – Present

**Junior Software Developer**

October 2022 – July 2025

**Intern**

August 2022 – September 2022

Worked on enterprise-scale applications for leading clients including Halliburton and Exebenus. Progressed from intern to full-time developer, gaining hands-on experience with multiple frameworks and delivering production-ready software that optimized workflows and improved data quality across oilfield operations.

### Projects

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**QAQC Application (Halliburton)** | *TypeScript, Node.js*

- Built core features for a **real-time data quality assurance and control system** within the RTS (Real-Time Systems) ecosystem.
  - Implemented validation logic to detect and remediate data issues before they reached downstream applications, ensuring **high-quality datasets** for engineers. Generated 11 visualizations (histograms, box plots, heatmaps) to highlight churn-prone segments.
  - Collaborated with QA and backend teams to streamline data pipelines and reduce manual interventions.
  - Enhanced maintainability of a **framework-less TypeScript codebase**, improving developer productivity.
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### Digital Work Order (DWO) | *Angular, TypeScript*

- Developed a web-based application to **digitize RTO (Rig-Time Optimization) Work Orders**, replacing a manual Excel-driven process.
- Reduced rig setup time from **2-4 hours to 0-15 minutes** by enabling real-time WITSML mnemonic mapping (PDT, UNT) delivery within the RTS ecosystem.
- Built modular UI components, optimized for performance and scalability, to support dynamic data entry and visualization.
- Worked closely with client stakeholders to ensure compliance with operational standards.

### Exebenus Pulse | *Vue.js*

- Contributed to frontend development of a **knowledge management and risk mitigation platform** for engineers.
- Implemented UI features enabling engineers to share procedures, track updates, and manage risks collaboratively.
- Supported migration and integration tasks to improve system usability and stability.

### DrillView (Ongoing) | *Vue.js*

- Currently working on a next-generation visualization tool for drilling operations. Reduced rig setup time from **2-4 hours to 0-15 minutes** by enabling real-time WITSML mnemonic mapping (PDT, UNT) delivery within the RTS ecosystem.
- Building **interactive dashboards** and **data-driven UI components** to help engineers monitor drilling data in real-time.
- Ensuring performance optimization for large-scale datasets and enhancing cross-browser compatibility.

## Education

**B.tech, Computer Science Engineering** – Kerala Technological University(KTU)