

AKSHAY BANKAPURE

Senior Software Engineer

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Bangalore, India



SUMMARY

Experienced Full Stack Software Developer with over 5 years in the field, proficient in a wide range of technologies including Data Science, Artificial Intelligence, and Machine Learning. Skilled in all stages of the Software Development Lifecycle, from requirements analysis to maintenance. Strong at creating efficient and well-documented code in multiple languages, with a focus on security, performance, and scalability. Successful track record in designing and implementing enterprise-wide solutions, collaborating with cross-functional teams, and driving project management activities. Expertise includes Cloud platforms such as AWS and Azure, with notable projects in ETL processes, data integration, ML models, and more.

EXPERIENCE

09/2023 - 12/2023

Senior Software Engineer

Autonomize AI

Healthcare AI platform

- Stack Details: AWS, Azure, SDK(AWS/Azure), Node JS, NPM, React, Python, microservices, REST/GraphQL, helm, Kubernetes, docker, HTML, CSS, JS, JSON, NoSQL, ML Flow, Label Studio
- Developed backend solutions using Node.js and Python, with React for frontend development across various projects.
- Implemented GraphQL into platform backend with Nest.js for improved updates.
- Designed and implemented pipeline for Kafka topic consumption, document processing, and database storage.
- Established system infrastructure in AWS and Azure, including CI/CD pipelines for microservices and Lambda functions. Configured lambda functions for basic operations and API access points
- Contributed to frontend development in React and Next.js, creating new components.
- Created a POC for image text data extraction in Azure, utilizing Azure tools, regex patterns, and NLP.
- Implemented microservices architecture with Docker containers and internal API calls.
- Developed a user interface for information retrieval using React, Redux, and OpenAI.
- Implemented RBAC in frontend, backend, and architecture using Node.js.
- Utilized Helm for Kubernetes container/pods orchestration.
- Deployed and integrated ML models into the pipeline.

09/2021 - 03/2023

Software Developer

Rig Control Products, Aberdeen, UK

Oil and Gas Control Systems, Softwares, HMIs, Servers, Centralized Data, Data monitor, interrupts safety systems

- STACK: Python, numpy, pandas, Nodejs (REST - Express), Canvas API, Vanillajs, TypeScript, npm, Azure DevOps, influxDB (noSQL), MS SQL, React, Azure SDK, AKS, Docker
- Constructed a website from scratch, initiated with prototyping and wire-framing using Figma, and implemented it on top of the headless CMS with a JS based framework (full-stack).
- Utilized Canvas API, modified the current screens in line with client requirements.
- Enhanced the back-end, incorporated additional functionalities, and validated communication between the back-end and front-end.
- POC - The data refinement utilizing Azure OpenAI and other cognitive services.
- Employed many custom in-house developed libraries for back-end operations (e.g., communicating with PLCs).
- Leveraging Azure services for seamless software deployment and implementation functionalities, ensuring efficient and reliable application releases.
- Contributed to the development of a real-time/live chart recorder library to project a circular chart showing the different sensor data which help the on site operators for evaluation and decision making.
- Devised & executed an isometric projection of the choke Manifold system inside the Canvas.
- Augmented and refined the current JavaScript version of the software.
- Transformed JavaScript code to TypeScript for RMS (Flagship System) Software.
- Conducted research on other frameworks for the front-end and executed mini-projects to illustrate the ease of use with React; created a few demo-projects using Vue JS + nodejs, TAURI, and React + NodeJS to compare performance and determine the most suitable one.
- Customized the screen and screen elements according to client or project requirements.
- Provided assistance in manually testing and debugging using Chrome developer tools and MS-code debugging tools. Assisted in testing simulated scenarios where physical sensors were connected and evaluated in a cutting-edge testing laboratory at RCP.

EXPERIENCE

02/2017 - 11/2019

Software Developer

Racksons IT Developers

Technologies Consulting and Services

- STACK: Python, Nodejs, ms SQL, React, AWS, Kubernetes, Docker
- Ensured application reliability and scalability by conducting regular testing(manual execution).
- Developed RESTful APIs for seamless integration with third-party services(AWS/Azure) and applications
- Utilized Redux middleware alongside reducers to orchestrate asynchronous actions.
- Taking care of logic and managing the data properly with the standard practice in react.
- Assisted for setting up the cloud infrastructure and setting up the Dev pipelines.
- Acquired expertise in API Authentication, cloud security, RBAC (Role-Based Access Control), and related topics. SSAnd then, Implementation of features such as, user authentication and other services.
- Collaborated closely with cross-functional teams to troubleshoot technical issues and integrate new features.
- Built and maintained multiple e-commerce websites using and implemented responsive design principles for a seamless user experience across all devices.

EDUCATION

2020 - 2022

M.S. in Computing

University of Dundee

2019 - 2020

PG in Artificial Intelligence and Machine Learning

National Institutue of Technology, Warangal (NITW)

2013 - 2016

Bachellors in Computer Applications

Indian Institute of Management Research and Technology, Bangalore