

KRISHNAPRIYA SANTHOSH

Senior Software Engineer I

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Creative and dedicated Frontend Developer with 3+ years of experience specializing in **React.js** and building dynamic web applications. Passionate about creating intuitive **user interfaces** and delivering seamless **user experiences**, I continuously enhance my skills and stay updated with the latest technologies. Known for my **innovative approach**, **attention to detail**, and **adaptability**, I am eager to contribute to impactful solutions in a React development role.

PROFESSIONAL EXPERIENCE

Senior Software Engineer, John Deere

July 2022 – present

● Global Vendor File Upload System

- Developed a **global vendor file upload system** for secure document submission, built with **React JS** and deployed on **AWS CloudFront**.
- Implemented user authentication for secure access to the CloudFront-hosted React application.
- Designed and developed the file processing pipeline using **AWS API Gateway** and **Lambda functions** to transform files into the required format for storage in **AWS S3**.
- **Automated** file transfers from **AWS S3** to an SFTP server using a scheduled automation script.
- Implemented **CI/CD pipelines using GitHub Actions** to streamline deployments and ensure continuous integration of new features.

Technologies Used: React, AWS CloudFront, API Gateway, AWS Lambda, AWS S3, SFTP, JavaScript, HTML, CSS.

● Reward and Recognition Application

- Developed a global reward and recognition platform using **React JS** for the frontend and **Node.js** for backend integration with **AWS DynamoDB**.
- **Designed and implemented a complex cron job in JavaScript**, scheduled to run daily using **AWS Lambda** and **EventBridge** for seamless and reliable task automation.
- Integrated the tool with **SAP SuccessFactors Employee Central** for dynamic organizational needs.

Technologies Used: React, Node.js, AWS S3, AWS DynamoDB, SAP SuccessFactors, JavaScript, HTML, CSS.

● UKG Document Management Project

- Designed and implemented a **Python-based solution** to process over **10,00,000+** documents from SharePoint for downstream integration into the **UKG system**.
- Created and tested APIs with Postman, **automating data parsing** and formatting with **Python**.
- Streamlined **large-scale** document handling and integration through middleware, reducing manual efforts by **80%**. **Technologies Used:** Python, SharePoint API, Postman, PyCharm.

● Microsoft Teams Bot – RIA Companion

- Built and deployed a **customized OpenAI** Companion chatbot within Microsoft Teams using **Power Automate**.
- Developed **Power Automate scripts** with **HTTP connectors** and integrated adaptive cards for user feedback.
- Implemented **MFA** and environment variables for enhanced security, enabling usage by **6000+** employees.

Technologies Used: Microsoft Teams, Power Automate, OpenAI, Adaptive Cards, MFA.

● Confirmation Tool

- Engineered and launched an **automated** employee confirmation platform, reducing manual processing time by **80%** and saving **480+ hours annually**.
- Integrated **Pega** and **SAP SuccessFactors Employee Central** via **REST APIs** for two-way data synchronization, achieving **99% efficiency**.
- Developed features for **automated** notifications, document generation, and hierarchical approvals. **Technologies Used:** Pega, SAP SuccessFactors, REST APIs.

● Digital Messaging Chatbot

- Led the development of a **digital messaging chatbot** deployed across **5 geographies** with localized user experiences.
- Integrated the chatbot with a ticketing system, reducing manual HR effort by **160+ hours** per month.
- Architected a self-service application to reduce IT dependency by **40%** and improve reporting.

Technologies Used: Pega, Digital Messaging APIs.

- **Global Support**
 - Collaborated with **5+** cross-functional teams and business stakeholders to enhance project **quality** and ensure **timely delivery**.
 - Acted as a backup Scrum Master, supporting **Agile** practices, sprint planning, and **incident management** using ServiceNow and Jira.
 - Conducted sprint-wise demos, improving communication between technical teams and stakeholders.**Technologies Used:** ServiceNow, Jira, Agile, Scrum.

- Graduate Engineering Trainee, John Deere**

July 2021 – July 2022

 - Developed **workflow** for **data management** in SharePoint and employee announcements. Leverage Microsoft **Power Automate** and **Pega RPA** to efficiently transfer data from **Microsoft Excel** to website fields through **automations**, resulting in **80%** reduction in manual workload.
 - Actively engaged in **CI/CD deployments**, ensuring successful system updates and enhancements reducing a potential error by **99%**.

SKILLS

Expertise	: Problem Solving, Agile methodologies, Data Structures & Algorithms, API Integrations, REST/Restful API, CI/CD, Git
Languages	: React JS, Node JS, Python, SQL, HTML, CSS, Java, Javascript, TypeScript
Tools	: AWS, Linux, Pega PRPC, Excel, Power Automate, Postman, Jira, Copilot Studio, VS Code, Firebase, MLOps API
Database	: MySQL, Dynamo DB, Firestore
Soft Skills	: Leadership, adaptability, communication, collaboration and presentation.

EDUCATION

National Institute of Technology Calicut, Kerala, India Bachelor of Technology, Computer Science and Engineering <i>Relevant Coursework: Discrete Structure, Data Structures and Algorithms, Web Programming, Machine Learning, Artificial Intelligence, Bioinformatics, Database, Advanced Computer Networks , Operating Systems, Compiler.</i>	Jul 2017 – May 2021 GPA – 7.36/10
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- PROJECTS:
- Disease prediction of Parkinson’s Disease**
 - Conducted research on a standardized **bio-inspired metaheuristic optimization algorithm** and attained an **accuracy rate of 96%**.
 - Collected **handwriting** and **speech datasets** of Parkinson’s patients for detection and performed feature selection to obtain a reduced set of features, which were then processed through machine learning algorithms for disease prediction.**Technologies:** Python (Jupyter notebook)
Techniques: Data cleaning and preprocessing, Feature selection.

Mess Management Application
 - Built a web application for **transparent mess management** in a hostel, enabling hostel staff to manage inventory and generate monthly sales reports, while students could access their expenses.**Technologies:** Ruby on rails, CSS, HTML, Javascript, mySQL
Techniques: Data visualization, dashboard design, data analysis, UX design, presentation skills

- LEADERSHIP & ACHIEVEMENTS:
- **John Deere Eminent Star 2025, John Deere**
 - **John Deere Pinnacle Tribute – Customer Centric Champion award 2024, John Deere**
 - Served as **Backup Scrum Master**, John Deere
 - Secured **8th place** in the **Chakravyuh Cybersecurity Encryption-Decryption Competition**, competing with **40 global teams**.
 - **Engagement Team Representative**, IT Human Resource Operation Center, John Deere
 - **Hospitality Committee Head**, National Institute of Technology, Calicut