

Yugandhar Reddy Bana

DATA ANALYST | FRONT-END DEVELOPER
SOFTWARE ENGINEER

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Programming Languages/Frameworks: ReactJS, Java, HTML/CSS, JavaScript, Python, SQL
Tools & IDEs: VS Code, Spring Tool Suite (STS), Eclipse, IntelliJ, JIRA
Technologies/Platforms: GitHub, Linux, JUnit, Agile/Scrum, Software Development Life Cycle (SDLC), Test-Driven Development (TDD), NumPy, Pandas, Redux

PROFILE

Analytical and results-driven software engineer with an MSc in Data Analytics from the National College of Ireland and a BSc in Computer Science & Engineering, combining strong software engineering expertise with advanced data modelling and statistical analysis. Experienced in developing scalable web applications using ReactJS, JavaScript, and RESTful APIs, and in building accurate predictive models using Python, R, and machine learning techniques such as Random Forest, XGBoost, and LightGBM. Proven ability to optimise system performance, extract actionable insights from complex datasets, and support data-driven decisions across Agile, cross-functional teams.

AREAS OF EXPERTISE

Data Analysis & Insight Generation: Skilled in analysing large datasets to extract actionable insights using statistical techniques, usage trend evaluation, and data visualisation tools. Supported data-driven decision-making to improve system performance, user engagement, and feature development prioritisation.

Data Validation & Error Reduction Techniques: Developed robust data input and validation tools to ensure accuracy, integrity, and consistency across systems. Implemented user feedback mechanisms and automated validation logic to reduce manual errors and improve data quality across platforms.

Documentation, Reporting & Knowledge Management: Authored comprehensive technical documentation, including feature specifications, process flows, bug fixes, and system updates. Promoted knowledge sharing through onboarding support, technical reporting, and cross-functional collaboration to ensure team alignment and project continuity.

Full-Stack Web Development & Front-End Engineering: Proficient in designing, developing, and maintaining scalable, high-performance web applications using ReactJS, JavaScript (ES6+), HTML5, CSS3, and RESTful APIs. Skilled in building responsive, user-centric interfaces with a focus on accessibility, reusability, and maintainability.

Agile Software Development & DevOps Practices: Experienced in Agile methodologies (Scrum, Kanban), contributing to sprint planning, daily stand-ups, retrospectives, and backlog grooming. Strong expertise in Git version control, CI/CD pipelines, automated testing, and software release management for continuous integration and delivery.

Software Architecture & Performance Optimisation: Adept at refactoring legacy codebases into modern, modular architectures to enhance maintainability and scalability. Resolved critical system bottlenecks, improved page load speeds, and implemented best practices for code optimisation, error handling, and system reliability.

EXPERIENCE

Chef (June 2024 – present)

Skylon Hotel, Dublin

- Managed kitchen operations and meal preparation in a high-pressure, fast-paced environment while maintaining food quality, hygiene, and timely service; developed strong multitasking, time management, teamwork, and communication skills.

React Developer (April 2024 – July 2024)

US Client (Freelance)

- Designed and implemented high-performance, scalable front-end architecture using ReactJS, delivering enhanced user experience and interface responsiveness.
- Rebuilt core UI components to improve web application performance, achieving a 30% reduction in page load time and boosting customer satisfaction.
- Integrated RESTful APIs to facilitate dynamic data exchange between client-side and server-side, improving application stability and reliability.
- Conducted code reviews, debugged complex issues, and resolved performance bottlenecks, resulting in improved system reliability and codebase quality.
- Maintained responsive, cross-browser compatible components using HTML5, CSS3, JavaScript (ES6+), and React Hooks.
- Delivered all development milestones on time in a fully remote setting, demonstrating strong time management, self-direction, and remote team collaboration.
- Documented feature specifications and user stories to support Agile Scrum workflows, sprint planning, and project handover.

Key Skills: ReactJS, API Integration, Front-End Development, JavaScript (ES6+), Agile Methodology, Remote Collaboration

Worked a major software engineering and data analytics project for one of the world's largest telecoms companies, gaining strong hands-on industry exposure.

- Designed and developed a scalable telecommunications request platform supporting device, application, and circuit provisioning across multiple global regions.
- Engineered modular, reusable ReactJS components with responsive design, improving system efficiency and reducing development time.
- Refactored monolithic front-end architecture to modern component-based structures, enhancing maintainability and alignment with business requirements.
- Increased automated test coverage from 30% to 90% by implementing robust unit testing and integration testing frameworks within a CI/CD pipeline.
- Built a custom CSV upload tool with real-time input validation and toaster notifications, streamlining data entry and reducing user error rates.
- Conducted detailed data analysis on user behaviour and system usage trends, enabling data-driven enhancements and performance tuning.
- Resolved critical system latency issues, reducing page load times from 30+ seconds to under 10 seconds, improving SEO performance and user retention.
- Led cross-functional collaboration and Agile delivery by managing version control through Git, contributing to daily Scrum ceremonies, maintaining detailed technical documentation in Confluence, and supporting team scaling through 20+ technical interviews and knowledge transfer sessions for 10+ developers.

Key Skills: ReactJS, Software Engineering, Data Analytics, CI/CD Pipelines, JavaScript, Agile Scrum

EDUCATION

- 2025 **MSc in Data Analytics** – National College of Ireland
- ✓ Conducted advanced statistical analysis using Python and R to evaluate how interest rates, housing supply, and regional trends influenced Dublin residential property prices (2019–2023); merged and cleansed datasets from PRSA, interest rate reports, and construction databases.
 - ✓ Developed and fine-tuned machine learning models including Random Forest, XGBoost, and LightGBM, achieving an 88% predictive accuracy rate; applied model evaluation metrics to validate performance and ensure reliability of findings.
 - ✓ Identified key insights such as affordability issues, supply-demand imbalances, and regional price inflation patterns; proposed further analysis on neighbourhood effects and economic disruptors to inform data-driven housing policy decisions.
- Thesis:** Impact of Macroeconomic Factors on Newly Built Residential Property Prices in Dublin*
- 2021 **BSc in Computer Science & Engineering** – SASTRA University, India
- ✓ Proficient in Java, HTML, CSS, and JavaScript, with hands-on experience developing interactive web applications and applying object-oriented programming principles.
 - ✓ Studied Data Structures and SDLC, applying algorithmic thinking and code optimization in academic projects to build efficient, scalable software solutions.

KEY PROJECTS

- Customer Churn Prediction:***
- Developed a customer churn prediction model using Logistic Regression, Random Forest, and XGBoost on a 7,000+ record telecom dataset; performed data preprocessing, including feature engineering, label encoding, and scaling, achieving 82%+ accuracy and identifying key churn drivers such as contract type and monthly charges.
- Task Tracker App (React, Local Storage):***
- Built a task tracker web application using ReactJS, JavaScript, and CSS, implementing task creation, status updates, and deletion; integrated Local Storage for client-side data persistence and applied a component-based architecture to ensure responsiveness and performance.
- Expense Tracker App (React Project):***
- Created a React-based expense tracker for real-time income and expense management with live balance updates; designed a user-friendly interface with responsive design, form validation, and persistent transaction history using Local Storage and reusable components.

CERTIFICATIONS