

PURUSHOTAM KUMAR RAUNIYAR

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Summary

Software Engineering undergraduate with hands-on experience building and testing production-grade web applications using React, Node.js, and MongoDB. Completed a 10-month VR web development internship delivering modular, tested UI components in an Agile environment. Strong foundation in data structures and backend development, with exposure to microservices, messaging systems, and RESTful APIs.

Experience

Simutopia | Visakhapatnam, Andhra Pradesh

Software Engineer Intern | 09/2024 - 06/2025

- Designed and delivered reusable VR-enabled **React** components using **A-Frame**, enabling immersive simulation workflows and improving UI modularity across multiple feature screens.
- Increased overall component test reliability by **30%** through unit testing with **Jest** and **React Testing Library**.
- Authored detailed codebase documentation using **JSDoc**, improving maintainability and accelerating onboarding.
- Collaborated in **Agile SCRUM** teams, contributing to sprint planning, issue refinement, and daily stand-ups.

Virtual Experience Program

JPMorganChase Software Engineering Job Simulation on Forage - December 2025

- Integrated **Kafka** into a **Spring Boot microservice** to consume and deserialize high-volume transaction messages using a configurable topic and embedded Kafka test framework
- Implemented transaction validation and persistence logic with **Spring Data JPA** and an **H2 SQL database**, including entity modeling and balance updates across relational User records.
- Connected the service to an external **REST Incentive API** using RestTemplate, processing incentive responses and incorporating them into transactional workflows.
- Developed a **REST** endpoint for querying user balances, returning JSON responses through a Spring controller while maintaining clean architectural boundaries.

Projects

wandR-Rental Platform – MERN Stack (MVC Architecture) | 02/2025 - 12/2025

- Designed and implemented a full-stack property rental platform using the **MERN** stack, supporting **user authentication**, property search, and role-based **CRUD** operations.
- Built REST APIs following **MVC** architecture, implemented secure **authentication** flows, and optimized **backend** structure for maintainability and future feature expansion.

Skills

Data Structures & Algorithms, LeetCode, Problem Solving, API Design, CRUD, Component Reusability, Authentication & Authorization, Unit Testing, A-Frame, React.js, Express.js, Node.js, MongoDB, JavaScript, Java, SQL, REST APIs, Jest, Python, React Testing Library, JSDoc, Git, GitHub, MVC, Agile (SCRUM), Docker, CI/CD

Education

Andhra University | Visakhapatnam, Andhra Pradesh

Computer Science & Engineering | 05/2026

- Awarded **ICCR Scholarship**, Government of India

Certificates

JPMorgan Chase Software Engineering Job Simulation — Forage, Runner-up, Smart India Internal Hackathon 2024