

# AMIYA KUMAR DAS

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## OBJECTIVE

**Software Developer** with hands-on experience building production-ready applications using **React.js**, **Redux Toolkit**, and **REST APIs**. **Unique approach:** break frontend into micro-architecture components, leverage **AI-assisted** development for repetitive tasks, enabling focus on business logic and **UX** optimization. This methodology provides project ownership, accelerates delivery, and drives continuous learning. Skilled in layered architecture, **API optimization**, and comprehensive testing. Exploring **Next.js** (SSR/SSG), **TypeScript**, **micro-frontend** patterns, and RBAC design.

## DEVELOPMENT APPROACH & METHODOLOGY

**Micro-Architecture Philosophy:** Break complex frontends into independent, reusable **micro-components** for better scalability and maintainability

**AI-Assisted Development:** Leverage agentic AI for repetitive code generation aligned with personal coding standards, freeing bandwidth for core business logic

**Outcome:** This approach enables complete project ownership, **40% faster development** cycles, deeper focus on UX optimization, and continuous skill enhancement through challenging problem-solving rather than boilerplate coding

## TECHNICAL SKILLS

- **Languages:** **JavaScript (ES6+)**, **Python (Basics)**, **TypeScript (Basics)**, **Java (Basics)**, Shell Scripting
- **Frontend:** **React.js**, **Redux Toolkit**, **RTK Query**, Context API, **Tailwind CSS**, Bootstrap, **Responsive Design**
- **Backend:** REST APIs, **Node.js (Basics)**, Backend **Architecture Patterns (Concepts)**
- **Database:** SQL (Basics), MongoDB (Basics)
- **Testing:** Jest, **React Testing Library**, Cypress, JUnit, REST Assured
- **Tools:** Git, GitHub, Postman, Swagger, VS Code, IntelliJ IDEA, PyCharm, Claude AI, Perplexity, Chat GPT
- **Concepts:** Layered Architecture, API Optimization, Caching, **Lazy Loading**, **Virtualized Scrolling**, Performance Optimization
- **Currently Exploring:** Next.js (SSR/SSG), Advanced TypeScript, Micro-Frontend Architecture, RBAC Patterns, Spring Boot, AWS, DSA

## PROFESSIONAL EXPERIENCE

### Web Developer | SaradaPR Initiative (formerly Clickwell Communication Pvt Ltd)

April 2025 - Present

Odisha, India

- Developing and maintaining **EduVoro**, a production platform built with **React.js**, **Auth0**, Context API, Bootstrap, and layered architecture
- Implemented **Redux Toolkit with RTK Query** for conditional data fetching, cache invalidation, and fallback data handling
- Built **debounced** search with **URLSearchParams sync** and API caching, **reducing server hits** and improving responsiveness
- Optimized UI performance using **React.memo**, **lazy loading**, **useCallback**, and **virtualized** infinite scrolling
- Established testing with Jest, RTL, and Cypress covering unit, component, and E2E tests
- Wrote backend API test cases using JUnit and REST Assured to validate endpoint behavior
- Automated 1500+ record updates using shell script with tracking for accurate backend operations
- Contributing to AstraFrame AI agent: prepared SRS, designed data flow, integrated Google Ads SDK and Meta Ads SDK

## EDUCATION & CERTIFICATIONS

### Bachelor of Computer Application (BCA)

Sep 2021 - May 2024

SVM Autonomous College, Jagatsinghpur, Odisha .

**Online Courses:** CodewithHarry (Web Development Basics), Hitesh Choudhry (Front-end Web Development).

## KEY PROJECTS

### EduVoro – Educational Platform | React.js | Redux Toolkit | RTK Query | Auth0 | Context API

[Link](#)

- Built educational platform with authentication, role-based routing, advanced search filters, and performance optimization
- Implemented RTK Query for conditional data fetching, automatic caching, and fallback data handling
- Applied virtualized infinite scrolling for efficient rendering of large datasets
- Established comprehensive testing with unit, component, integration, and E2E test layers

- AI tool for refining RAG system parameters with multi-SDK integration
- Designed SRS documentation and data flow architecture

### Shell Automation Script (1500+ Data Update) | Shell Script | Node.js

- Automated bulk updates for 1500+ records with error handling and logging
- Reduced manual effort by 90% for backend operations

## ACHIEVEMENTS & ADDITIONAL SKILLS

- **Ownership-Driven Development:** Take complete feature ownership from design to deployment, resulting in deeper system understanding
- **AI-Augmented Efficiency:** Strategic use of AI for repetitive tasks enables 60% more time on business logic and UX optimization
- **Continuous Learning:** Micro-architecture approach and complex problem focus drive daily skill enhancement in system design and scalability
- **Production Mindset:** Strong debugging, real-time error handling, and performance optimization experience in live systems

Passionate about building scalable architectures, exploring **Next.js**, **TypeScript**, **RBAC** patterns, and **DSA**