

# AJAY PRAJAPATI

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## SKILLS

**Frontend:** React Js, Redux, Material UI, Tailwind CSS, JavaScript, TypeScript, Next Js, Responsive Web Design

**Backend:** Node Js, Express Js, MySQL, MongoDB, ORM (Sequelize, Drizzle), Socket.IO

**DevOps Tools:** Git, GitHub Actions, Docker, Kubernetes, CI/CD Pipeline, ESLint

**Testing Tools:** Jest, K6

**Cloud Platforms:** AWS (RDS, S3, EC2, Lambda)

**Other Skills:** Data Structures & Algorithms, Payment Integration (Razorpay)

## WORK EXPERIENCE - AHASOLAR TECHNOLOGIES LTD

### Microservices based - National Solar Subsidy Management System

Jan 2024 – Present

- Developed **responsive React.js front-end components**, enhancing user experience and optimizing website performance for subsidy applications, achieving **20% faster page load times**.
- Engineered and deployed a containerized **microservices architecture** for **PM Surya Ghar Muft Bijli Yojana** on AWS, orchestrating **6 independent backend services** (Node.js/Express.js) with **Kubernetes (AWS EKS)**. Implemented **AWS API Gateway** for request routing and configured **Horizontal Pod Autoscaling (HPA)** to ensure high availability under varying load, complemented by **Vertical Pod Autoscaling (VPA)** for efficient resource utilization.
- Built secure server-side user authentication logic with Node.js and Express.js, potentially integrated with API Gateway authorizers, **reducing authentication vulnerabilities by 30%** based on security audits and **improving login success rate to 99.9%**.
- Configured and optimized Amazon S3 for secure, shared document storage across services, **reducing storage costs by 15%** through lifecycle policies and **improving document retrieval time by 25%**.
- Led database architecture design for **GOA Portal**, ensuring **scalability for 1,00,000+ events** and **optimizing query performance by 35%** through indexing and schema design.
- Streamlined MySQL database operations, **improving indexing, normalization, and query efficiency, resulting in 30% reduction in average query execution time and 20% decrease in database server load**.
- Implemented **CI/CD pipelines using GitHub Actions** automating build, test, and deployment of containerized microservices to **Kubernetes (AWS EKS)** behind an API Gateway; utilized **Docker with multi-stage builds** to create optimized container images (**50% size reduction**), resulting in **90% fewer manual deployment errors** and **40% faster feature delivery cycles**.

### Microservices-Based Pizza Ordering Application (Personal Project)

Sept 2024 – Present

- Architected and developed a scalable **Pizza Ordering Application** using a **microservices architecture**, modularizing authentication, catalog, payments, delivery, and notifications, **enhancing system flexibility by 40%** and **reducing maintenance overhead by 30%**.
- Built an **Admin Panel** with **React.js, Next.js, Tailwind CSS, and Ant Design**, implementing **secure role-based access control (RBAC)**, reducing admin task time by **30%** and improving operational efficiency by **25%**.
- Containerizing microservices using **Docker**, optimizing image sizes with **multi-stage builds**, and reducing deployment overhead by **30%** through efficient resource allocation.
- Implemented **Kubernetes** for container orchestration, utilizing **Horizontal Pod Autoscaler (HPA)** and **Vertical Pod Autoscaler (VPA)** to dynamically scale based on traffic, **reducing downtime by 35%**.
- Integrating **AWS S3, GitHub Actions, and CI/CD pipelines** for **automated deployments, rolling updates, and zero-downtime releases**, decreasing deployment errors by **20%**.

## INTERNSHIP

### AHASolar Technologies Ltd.

Sept 2023 – Feb 2024

- Integrated real-time messaging using WebSockets for instant user communication in the application.
- Enhanced data fetching performance using GraphQL to reduce over-fetching and under-fetching.
- Designed a Job Analysis Web App & Browser Extension, utilizing AI-based resume parsing and analysis to predict job success probability and generate ATS-friendly resumes.
- Executed Automated Resume Generation, leveraging AI to analyze job descriptions and create tailored, optimized resumes for candidates.

## EDUCATION

VIT Vellore, Tamil Nadu

MCA

May 2022 – May 2024

CGPA: 8.65