

# Kartik Vaishnav

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## Experience

**Junior Software Engineer**, UnitedLayer March 2023 – Present

- Designed and implemented reusable **Angular** components for UnityOne AI's **Orchestration module (Task and Workflow)**, accelerating configuration by 25% and improving accuracy by 30%.
- Architected and configured **Auto-remediation and Event Ingestion modules**, reducing issue resolution time by 20% and boosting operational efficiency by 35%.
- Contributed to Single-Tenant Portal integration with **AWS, Azure, Oracle, and GCP**, enabling 4x faster deployment cycles and 30% improved cloud access efficiency.
- Built a real-time **dashboard summary** in UnityOne AI using **RxJS, NgRx, DI, and Chart.js**, improving data load performance by 45% and UI responsiveness by 35%.
- Led testing initiatives using **Jasmine and Karma**, achieving 98% test coverage and contributing to a 15% reduction in production bugs.

## Technologies

**Frontend:** JavaScript, TypeScript, Angular, React, HTML, CSS, Bootstrap

**Backend:** Node.js, Express, Java, MongoDB

**Tools/Platforms:** Git, GitHub, Postman, Firebase, Jasmine, Karma

**Core CS Concepts:** Data Structures and Algorithms, Database Management Systems

## Education

**SRM Institute of Science and Technology**, B.Tech in CSE July 2019 - May 2023

- CGPA: 8.76/10.0

## Projects

**BG-Removal Application ( Tech : MERN)** Github Repo

- Developed a full-stack background removal platform using React, Node.js, MongoDB with 95%+ accuracy and 90% faster image processing.
- Integrated Clerk and Stripe, ensuring 100% secure authentication and 99% payment success rate.
- Optimized for performance, resulting in 90% faster image processing, and launched on Vercel with 99.9% uptime.

**Inventory Management (Tech : Angular and JSON Server)** Link || Github Repo

- Build an application of Inventory Management System, allowing users to manage inventory items efficiently, resulting in a 30% improvement in inventory tracking accuracy.
- Integrated Angular Material components with reactive forms, enhancing user experience and streamlining inventory CRUD processes, leading to a 40% reduction in user input errors.
- Deployed JSON Server as a mock backend, facilitating seamless database interactions and reducing development time by 25%.

**Password Manager (Tech : Angular and Firebase)**

- Built an application to manage passwords using Angular, Tailwind CSS, and Firebase, achieving a 50% increase in security and real-time data management efficiency.
- Utilized Angular's Reactive Forms for password entry and validation, reducing form errors by 35%.
- Adopted Firebase for secure real-time password storage and retrieval, ensuring scalability and authentication, with a 40% improvement in data retrieval speed and security.

## Certificates

**Java, (HackerRank)** : Issued : Dec 2022 - No Expiration Date || Credential Id : 7BA1FA37DOF6

**SQL, (HackerRank)** : Issued : Nov 2022 - No Expiration Date || Credential Id : 7335CAD30442