Divit Patidar

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LinkedIn • Portfolio • GitHub

EDUCATION

Rice University, Houston, Texas   **Graduated 2024**

Master Of Science, Computer Science, Minor – Ai

SKILLS

Programming Languages: Python, Shell, Bash, JavaScript / TypeScript

Frameworks & Libraries: HTML/CSS, React, Redux, Next, Node, Django, D3js, Flask

Other Tech: Core Web Vitals, RUM, Automated Testing, A/B Testing-Ai, NLP

PROFESSIONAL EXPERIENCE

Benchmark Insurance | Software Developer   02/25 – Present

- Built a **multi-tenant** SaaS **insurance platform** with white-label support and 7+ subdomains, enabled **6 user roles** and automated premium/commission payouts via **4 Ascend Connect schemas**.
- Designed **rule-based pricing** engine using **MPTT trees** and conditional logic for **15+ insurance products**, integrated Everest & ReApi to cut manual underwriting by **80%**.
- Built risk, fraud prevention + automated document generation system using **FEMA flood maps**, **fire**, and **income/property** validation cutting fraud by **90%** generated **15K+ PDFs/month** (certificates, policies) via **ReportLab** + **wkhtmltopdf** with 0 effort.
- Implemented **row-level multi-tenant isolation**, **PCI-compliant** Stripe Connect **flows** (3-way split, tax handling), and **audit-logs** file access.

OpenStax | Software Engineer Intern   05/24 – 07/24

- Worked with **Headless CMS (Sanity)** to streamline content publishing pipeline; improved authoring UX with custom UI components.
- Implemented **user auth** & **RBAC** with encrypted session **tokens** and route-level access control.

Amazon DSP| Software Engineer   06/22 – 07/23

- Fixed recurring **memory leaks** in the fleet **dashboard** by cleaning up map marker event listeners, preventing browser crashes.
- Created a **geofence tool** for fleet managers **using React** with a simple **polygon editor** to edit live maps (entry/exit: dispatch)
- Created a **prediction** accuracy tracker using **python & a dashboard** with **waterfall charts**, comparing **ML forecasts** against **actual outcomes** to refine territory optimization models.
- Built reusable **component library** with **React Storybook**, reducing duplicate codes & standardizing UI patterns across **3 product teams**.
- Architected **multi-region AWS** infrastructure using **ECS/Fargate** and **Terraform**, across 3 regions with **5-minute** disaster **recovery.**

PROJECTS

Pick-A-Pad | *Next.js, Node.js, PostgreSQL TypeScript, RAG, Axios, Stripe Integration, Jest (Link)*

- Broke a deal with **Juniper Group** to **host** the product on **11** (testing phase) properties scaling to 40 generating **7k+ USD** per month.
- Built **AI tenant screening pipeline**, integrating **credit/background** checks and automated decision logic **predicts** tenant **reliability**.
- Created **API client architecture** with retry logic, auto-recovery, to integrate for **TransUnion**, **payment rails**, and doc processing.
- Developed a **multi-entity** (LLC, Corp, Sole Prop) onboarding engine with **EIN**, and **E-Verify** processing. Built with Zod validation.
- Trained **Llama2/BERT**, **Llama2-Chat** & **E5** models on **2k+ documents** (leases, notices, local laws) for context-aware **document classification**, **response generation**. Result: 80%+ reduction in manual back-and-forth across tenant and contractor interactions.

Storybook Design System (UI Library) | *React.js, TypeScript, StoryBook (Link)*

- Built a UI Component Library using Storybook with modular & reusable components multiple custom hooks.

React-perf (npm package) | *JavaScript, npm pkg dev, memoization, monitoring (Link)*

- Built the package for React performance optimization featuring automated component re-render detection, memoization suggestions, & runtime monitoring, that maintains clean production code preserving development notes in separate Git branches.

Trackify | *React.js, Node.js Redux, Express.js, Node, Docker, MongoDB Atlas (Link)*

- A web application designed to streamline task management and enhance productivity in the workplace. A user-friendly interface for employers to keep track of their employees' daily work activities and empowers employees to log their tasks efficiently.

Stegano LLM | *Python, GEN-AI, LLM, Base-64, Dolly-3B (Link)*

- Developed Stegano-LLM, a steganography system that leverages Dolly3B model to generate text prompts containing Base64-encoded image data. The system enables covert data transmission through AI-generated content while maintaining perfect reconstruction.