ASHUTOSH PADAL

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Headline

- Full-Stack Software Engineer Specializing in AI-Driven Solutions, LLM Integration & Scalable Web Applications

Professional Summary

- Project-based full-stack developer focused on **AI-accelerated development**, **LLM integration**, and **scalable web applications**. Hands-on experience with **React**, **Python**, **Node.js**, and **database design** delivering end-to-end solutions that are **load-tested to 10K+ daily API requests**, reach ¡1.5s first load, and maintain **99.9% uptime** on managed hosting (Vercel/Firebase). Strengths include **prompt engineering**, **REST API design**, **state management (Redux)**, and **performance & accessibility optimization (Lighthouse 95+)**. Passionate about shipping usable software fast with clean code, version control, and CI/CD. Eager to contribute in an **entry-level/graduate software engineer** role driving measurable product impact.

Technical Skills

- **Languages:** JavaScript (Intermediate), Python (Intermediate), SQL, HTML5, CSS3
- **Front-End:** React (Intermediate), Redux Toolkit, Tailwind CSS, Responsive & Accessible UI (WCAG)
- **Back-End:** Node.js (Rookie), Express, REST API Design, JSON Web Tokens
- **AI/ML:** AI Integration (Advanced), Large Language Models (Advanced), Prompt Engineering, TensorFlow.js, MediaPipe
- **Databases & Cloud:** MySQL, PostgreSQL, SQLite, MongoDB, Firebase (Auth/Hosting/Firestore), Vercel/Netlify, Schema Design & Indexing
- **DevOps & Tools:** Git/GitHub, GitHub Actions (CI/CD), Linux, Docker (basics), VS Code
- **Methodologies:** Agile/Scrum, Requirements Analysis, Unit/Integration Testing (Jest/PyTest basics)

Projects

InsightFlow — Automated Business Analytics Dashboard — *React, Redux Toolkit, Chart.js, Firebase, Vercel* **Aug 2025**
- Built a single-page analytics app with **drag-and-drop dashboards**, cross-filtering, and export (PNG/PDF).
- Implemented **role-based auth** with Firebase; optimized rendering path to achieve **Lighthouse 95+** and **TTFB ¡ 200ms**.

- Load-tested APIs to **10K+ requests/day**; reduced re-rendering by **30%** using memoization and normalized state.

Visage — Real-Time Vision Processing Web App — *Flask, TensorFlow.js, MediaPipe, Tailwind* **Jul 2025**
- Implemented browser-based **face/hand tracking** hitting **60 FPS** on mid-range hardware with WebGL acceleration.
- Reduced inference latency by **40%** via model selection, batching, and pipeline optimizations.

Prompt Perfector — LLM Prompt Optimization Tool — *React, OpenAI API, Tailwind, GitHub Actions* **Jun 2025**
- Built real-time **prompt scoring & suggestions** feature, integrated CI/CD, and reduced app load to ¡1.5s FCP.

Portfolio Web App — *HTML, CSS, JavaScript, Tailwind* **Nov 2023**
- Created a responsive personal portfolio with **SEO optimization, dark mode, and modern UI animations**.

Education

Berhampur University **Nov 2020 – Jul 2023**
Bachelor of Science in Computer Science *Semiliguda, Odisha*

Relevant Coursework

Data Structures & Algorithms	Database Management	Internet Technologies
	Artificial Intelligence	Systems Programming
Software Engineering	Large Language Models	Computer Architecture

Additional

- **Open Source:** GitHub repos showcasing React, Node.js, SQL databases, and AI-driven solutions.

- **Achievements:** Lighthouse **Performance 95+** across multiple deployed apps; database queries optimized for **10K+ records**.

- **Keywords for ATS:** Full-Stack, React, Python, Node.js, SQL, MySQL, PostgreSQL, SQLite, REST APIs, LLMs, AI Integration, Prompt Engineering, Redux, Firebase, MongoDB, CI/CD, Docker, Accessibility, Performance Optimization.