

Ashutosh Mathore

Full-Stack Software Engineer | React, TypeScript, Next.js, Node.js

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Experience

Open Source Developer | Kardashev Labs

June 2026 – Present

- Built Next.js and TypeScript dashboards for electricity prices, demand, and interconnection queues, including a project search interface with Python integrations for seven US electricity markets and PostgreSQL storage.
- Developed a FastAPI data service and published Python and JavaScript/TypeScript clients and an MCP server. Automated data ingestion and deployment with Docker and GitHub Actions.

Software Engineer Intern | USC Information Sciences Institute

June 2025 – May 2026

- Extended the SPHERE cybersecurity research portal with researcher-facing features and REST API improvements using React, Go, and PostgreSQL, deployed on Kubernetes with Helm.
- Built Go tooling for local research-container deployment, automating WireGuard VPN configuration, IP assignment, DNS setup, and SPHERE API integration.

Software Engineer | Azympto

May 2023 – Jan 2024

- Implemented a nested comment interface and interactive user guidance in Razzl's React Native and TypeScript video application.
- Maintained the React/TypeScript video-upload portal and its Node.js/Express API integration, implementing features and resolving bugs across the content workflow.

Full Stack Developer Intern | Mithya Labs

Jan 2022 – July 2022

- Led development of Kno Pro, an incentivized learning platform built with Next.js, TypeScript, Node.js, and Contentful CMS.
- Delivered React pages and reusable UI components for Playground App, progressing from frontend bug fixes to independent feature development.

Independent Client Work

Founder & Lead Engineer | Netnimbus (self-employed)

May 2023 – Aug 2024

Concurrent with my Azympto role through Jan 2024.

- Led a three-person software agency delivering 12+ client projects, including an interactive campaign for American Tourister and web applications for US and India-based clients.
- Built Right Sight Research, a B2B reports marketplace using Next.js, Node.js, and PostgreSQL, with authentication, payments, and content delivery.

Technical Skills

Frontend: React, Next.js, TypeScript, JavaScript, React Native, HTML, CSS, Tailwind CSS

Backend & Data: Node.js, Express, Python, FastAPI, Go, REST, GraphQL, PostgreSQL, Redis

Infrastructure: Docker, Kubernetes, Helm, AWS, GitHub Actions, Git, Linux

Research

AuditQuant | Master's research project

Code private pending publication

Built a smart-contract analysis application combining static and symbolic tools with LLM-assisted summaries, using a React/TypeScript interface and Python/FastAPI backend.

WEBIST 2025 | Coauthor, *A Long Short-Term Memory (LSTM) Neural Architecture for Presaging Stock Prices*. SCITEPRESS.

Education

California State University, Sacramento | MS, Computer Science

Studies: Aug 2024 – May 2026 | Graduation expected Dec 2026

Veermata Jijabai Technological Institute | Master of Computer Applications

Studies: Dec 2020 – July 2022 | Graduation Feb 2023

SSBES' Institute of Technology and Management | Bachelor of Computer Applications

Studies: May 2017 – Oct 2020 | Graduation May 2021