

Achal Singhal

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EDUCATION

Vivekananda Institute of Professional Studies (Under GGISPU) Delhi, India
Bachelor of Technology in Artificial Intelligence and Machine Learning 2021 – 2025

Bal Bharati Public School, Pitampura Delhi, India
High School (CBSE) 2007 – 2021

EXPERIENCE / PROJECTS

Software Development Engineer Nov 2022 – Jan 2024
Vivekananda Institute of Professional Studies Delhi, India

- Spearheaded the development of *Manthan*, a comprehensive enterprise resource planning (ERP) software tailored for universities, enhancing operational efficiency and quality of life.
- Designed and implemented a robust web application for faculty and management, a cross-platform mobile application for students, an admin dashboard, and a server.
- Engineered functionalities to manage various institutional aspects such as faculty attendance, event scheduling, student attendance and assignments, and analytics, streamlining administrative tasks.
- Successfully deployed the solution to over 7,000 users, including faculty, students, and management staff, demonstrating significant scalability and user adoption.
- **Technologies Used:** React, TypeScript, React Native, SvelteKit, NextJS, and Firebase.

AI/ML Intern July 2024 – August 2024
Kaidoko Remote

- Addressed complex system design challenges, enhancing expertise in scalable architectures and conducting comprehensive feasibility studies.
- Collaborated on designing and implementing machine learning models to solve complex problems.

Back-end Engineer, Freelance May 2024 – June 2024
Travel To India Delhi, India

- Developed the back-end of traveltoindia.co.in to production and scalability standards.
- Designed and implemented a robust database architecture to ensure efficient data storage and retrieval, optimizing for performance and scalability.
- **Technologies Used:** TypeScript, PostgreSQL, Kysely, NextJS, and React.

Founding and Core Member January 2021 – Present
Coalition of Designers and Engineers *The Technical Society of VSE&T*

- Spearheaded the planning and execution of over 10 major events, including IDEATHON and Nirmaan, engaging more than 1,000 participants.
- Demonstrated strong leadership and management skills by coordinating organizational activities and fostering effective teamwork.
- Cultivated advanced communication, leadership, and project management skills, emphasizing adaptability.

Intern Aug 2023 – Aug 2023
Larsen & Toubro Haryana, India

- Gained hands-on experience in Identity and Access Management (IAM).
- Immersed myself in a dynamic workplace culture emphasizing collaboration and communication.
- Developed a meeting scheduler application using SvelteKit and Supabase.

Front-End Engineer, Freelance Aug 2023 – Sep 2023
Cryptocurrency Platform Remote

- Developed the majority of the front-end for a major Chinese cryptocurrency trading platform.
- **Technologies** - Svelte, TailwindCSS, and JavaScript.

View more of my work at www.achals.me.

TECHNICAL SKILLS

Core: System Design, Machine Learning, Deep Learning, Database Design, Authentication & Authorization Flows, Design and Analysis of Algorithms, Testing and QA, Cloud Computing & Deployment, and SDLC Practices.

Languages: TypeScript, Python, Rust, JavaScript, and C.

Technologies: React + hooks, React Native + Expo, NextJS, Express, RESTful APIs, PostgreSQL, MongoDB, SvelteKit, Flask, Linux, CSS, HTML, and Git

Soft Skills: Collaboration and teamwork, Leadership, Adaptability and willingness to learn new technologies, Technical Writing, Problem Solving, Resilience, and Project Management.