Abhinav Ohri

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EDUCATION

Indian Institute of Technology Madras   Chennai, India
Diploma in Data Science and Programming;   *Jan, 2024 – Aug, 2025*

Sanatan Dharma College   Punjab, India
Bachelor of Commerce;   *May, 2020 – May, 2023*

EXPERIENCE

University Of Alberta   Edmonton, AB
Fullstack Developer   *Sept 2025 - Present*

- **GrandForum**: Enhanced a MediaWiki-based collaboration tool used for project coordination and document submissions. Implemented end-to-end features including reviewer assignment, comment history, and file upload handling, leveraging *PHP* for backend logic while simplifying multi-step workflows using *Backbone.js* for state management and vanilla *JS* for role-specific behaviors. Delivered lightweight *CSS* improvements, persistent UI configurations, and clarity-focused layout changes that resolved client-reported usability issues and reduced friction across the platform.

Credgible
Frontend Developer   *May 2025 - Sept 2025*

- **Liquidation Protocol Efficiency Tracker**: Engineered a full-stack liquidation monitoring system, utilizing *Ponder* to index on-chain events and a *Flask* backend to compute real-time efficiency metrics. Developed a RESTful API to serve this processed data to a *React* and *Material UI* dashboard, visualizing the latency between a position becoming liquidatable and the actual liquidation transaction.

DeepThought Initiative   East Lansing, MI
Research Software Engineer   *Jan 2024 - May 2025*

- **DTI Reviewer**: Built an author ranking system, coupling a Flask backend for cosine-similarity analysis with a responsive *React* UI. Enhanced the user experience by handling heavy vector computation payloads through client-side caching and optimistic UI updates.
- **PACManWeb**: A peer-review support tool with a scalable React interface built using *ContextAPI + useReducer* for state management, component-level and browser-storage for caching and lazy-loaded routes for faster navigation. Delivered smooth reviewer workflows with real-time log streaming via *SSE*, *React-Bootstrap UI* components, and tested using *React Testing Library + Vitest*.

Google Summer of Code
Mentor   *2024, 2025*

- **Tardis**: Mentored students in scientific software development, focusing on visualization techniques, regression testing, software design and best practices of documentation. This guidance strengthened their technical and professional skills while also improving the reliability, usability, and long-term sustainability of the TARDIS research codebase.

OPEN SOURCE CONTRIBUTIONS

- **Nextcloud**: Engineered core frontend features using *Vue.js* and *TypeScript*, including appointment cloning and attendee data management, while modernizing the *PHP* backend by resolving *PHPUnit* deprecations and refining notification logic within the CI/CD pipeline.(calendar, server,).
- **Indico**: Modernized document generation by migrating legacy LaTeX templates to WeasyPrint (#PRs).
- **ListenBrainz**: Contributed to ListenBrainz by implementing a stats art generator page (#2518) and fixing animation glitches in the 'Recent Listens' page (#2564) using React and CSS to enhance responsiveness and UX.
- **Weblate**: Contributed multiple Django backend improvements and bug fixes to Weblate, including localization fixes, API enhancements, and UI refinements (PRs: #14191, #14733, #14777).

PROJECTS

- **VectorSearch (WordPress AI Plugin)**: Developed a RAG system using *Gemini* LLMs to enable semantic indexing and context-aware responses. Engineered a Hybrid Search engine that utilizes Reciprocal Rank Fusion to merge traditional keyword matching with vector-based cosine similarity, significantly increasing retrieval precision.
- **Defi Dashboard**: Built RiskScan, a real-time DeFi risk monitoring platform using *Next.js*, *TypeScript*, and *Convex*. implemented interactive data visualizations with Recharts to track protocol solvency, liquidation heatmaps, and live oracle health
- **Capstone Project: AI-Powered Recruitment Suite**: Developed an end-to-end recruitment platform using *Vue.js* and *FastAPI* and *Gemini/Cerebras* LLMs to automate hiring workflows. Engineered intelligent REST APIs for automated scheduling, interviewer matching, and resume parsing, while leveraging Prompt Engineering and *NLP* to implement dynamic question generation and personalised candidate feedback.

PROGRAMMING SKILLS

- **Languages**: JavaScript, TypeScript, Python, SQL, Bash, PHP, Java, HTML5, CSS

- **Technologies**: React, Django, Node.js, MongoDB, Next.js, Tailwind CSS, WebSockets, Vue.js, Backbone js, Flask, Jinja2, Hugo, Docker, RESTful APIs, SQLAlchemy, GitHub Actions, Git, GitHub Pages