

Aadarsh Kumar Tiwari

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Education

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| Indian Institute of Technology (Indian School of Mines), Dhanbad <i>Bachelor of Technology in Electronics and Communication Engineering</i> | Dhanbad, Jharkhand 2020 - 2024 |
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Experience

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| KPIT Technologies <i>Software Engineer Typescript, Javascript, React.js, Node.js, Express.js</i> | Pune, Maharashtra Jun 2024 - Present |
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- Created the Kineto Central dashboard from the ground up, now actively used by 2,500+ users across the organization and client base.
- Implemented server state management improvements using React Query, achieving a 150ms reduction in UI response time and boosting user engagement by 15%. These changes significantly enhanced application responsiveness.
- Provided technical support to 50+ clients, facilitating successful integration of Kineto Central into diverse workflows, which reduced onboarding time by 25% and improved client adoption rates.
- Designed and implemented Role-Based Access Control (RBAC) in an AI chat application, managing permissions for 2,500+ daily users.
- Developed a file management platform using React.js and Python based API, streamlining organization and retrieval of over 10,000 files across 1,000+ users.
- Engineered real-time file uploads with WebSocket-based progress tracking, enhancing user experience for 1,000+ users by reducing perceived wait times by 40%.
- Integrated LDAP authentication for secure user verification, enhancing workspace and file-sharing security.

Technical Skills

Programming Languages: Javascript, Typescript, C++
Technologies and Frameworks: ReactJs, Node JS, Express JS, PostgreSQL, MongoDB
Tools: Docker, Kubernetes, Git, Postman, Github, Linux
Coursework: Data Structures & Algorithms

Open Source Contributions

Continue.dev | *TypeScript, React, VSCode Extension* | 🐙 GitHub

- Contributed to continue.dev, an open-source AI coding assistant platform that enhances development workflows.
- Implemented custom language model integration features that expanded compatibility with various AI providers.
- Fixed UI bugs in the VSCode extension interface, improving user experience and accessibility.
- Collaborated with the development team to enhance documentation and testing for the platform's core components.

Autoware | *Python* | 🐙 GitHub

- Parsed the BDD100K lane detection dataset to generate curated inputs and ground truth in PNG and JSON formats.
- Implemented lane merging logic using angular thresholds and interpolation, improving detection accuracy.
- Refined lane annotations and classification, enhancing reliability for Ego Left/Right Lane detection.

Projects

Comment Copilot | *Typescript, React.js, Python, Flask, PostgreSQL, Celery, RabbitMQ* | 🐙 GitHub

- Developed Comment Copilot, a full-stack YouTube comment moderation platform using a **Python/Flask** REST API and a **React/TypeScript** SPA to streamline creator workflows through AI-powered comment categorization and direct in-app reply functionality.
- Engineered a scalable backend with **Flask, PostgreSQL, and SQLAlchemy**, integrating **Google OAuth 2.0** for secure authentication. Deployed a **Celery/Redis** task queue for high-performance, asynchronous fetching and processing of YouTube comments, with all user credentials encrypted for maximum security.
- Integrated **Google's Gemini API** for intelligent, automated comment classification into actionable categories (e.g., Questions, Ideas, Spam), significantly reducing manual moderation time. The platform provides a complete workflow from secure account connection to a filterable dashboard and direct reply submission via the YouTube API.

Achievements

- Achieved rank of 4901 out 25,000 participants JEE Advanced 2020
- Achieved rank of 2098 out 17,000 participants in Codeforces Round 852 (Div 2)
- Solved 1100+ problems on various platform like (Codeforces 🔗), (Leetcode 🔗), (GeeksForGeeks 🔗)