AJINKYA WALUNJ

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EDUCATION

Vishwakarma Institute of Technology – B-Tech, Computer Engineering (CGPA - 8.87)
Present   **Pune**

SKILLS

- **Languages**: Java (*Intermediate*), Python (*Beginner*), C language (*Intermediate*), R (*Beginner*), JavaScript (*Intermediate*).
- **Libraries**: Scikit-Learn (*Intermediate*), TensorFlow (*Beginner*), React.js (*Beginner*), Node.js (*Beginner*)
- **Tools**: Git (*Beginner*).
- **Databases**: MySQL (*Intermediate*).
- **Others:** Data Structures and Algorithms, HTML, CSS, Natural Language Processing (NLP), DBMS, Operating System, Computer Network, Compiler Design, Artificial Intelligence, Data Science, Object Oriented Programming, Json Web token (JWT), RESTful APIs.
- **Soft Skills**: Teamwork, Leadership, Communication.

WORK EXPERIENCE

QED42 – Web Development Intern
GIT, React.js, JavaScript, Next.js, RAG, Python, Drupal   Present

PROJECT(S)

Data-Driven Traffic Analysis System for Pune Municipal Corporation (PMC)   [Source Code](#)
MongoDB, Express.js, React.js, Node.js, Google Maps API, Cloudinary, TensorFlow   Aug 24–Nov 24
- Developed a web-based portal to analyze and mitigate urban traffic issues by integrating real-time traffic insights with data on potholes, complaints, nearby institutions, and live congestion.
- Enabled citizen participation through road issue reporting verified via machine learning models.
- Reduced API response time by 80 seconds through batch filtering of route points. Managed API rate limits with strategic delays for smooth performance.

HomeSeek – Productive Real Estate Marketplace | [Live Link](#)   [Source Code](#)
React.js, Node.js, MongoDB, Prisma, JWT   Jun 24- Aug 24
- Developed a full-stack web application for real estate listing and rental services, enabling users to browse, filter, and view detailed property information through an interactive map interface.
- Integrated JWT-based authentication and authorization for secure login and registration functionality.
- Designed and optimized the backend with Node.js, Express, and MongoDB, utilizing Prisma as an ORM for efficient database operations.
- Structured the system architecture to ensure efficient handling of protected routes using middleware.

J.P. Morgan Software Engineering Virtual Experience on Forage   [Certificate](#)
Open-Source Contribution, GIT, Python, React, Technical communication, JavaScript, Web application   Jun 24–July 24
- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open-source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

E-Commerce Frontend Application | [Live Link](#)   [Source Code](#)
React, Plain CSS, JSX, State management, Context API   Apr 24- Jun 24
- Built reusable and modular components to ensure code maintainability and scalability.
- Designed and styled the application using plain CSS, ensuring a visually appealing and consistent layout.
- Implemented Context API for efficient state management across the app, improving data flow and performance.
- Optimized page load times and improved performance through effective state management and component reusability.

ACHIEVEMENT(S)

- Solved over 600+ problems across LeetCode and GeeksforGeeks, showcasing strong algorithm and data structure skills.   [LeetCode](#) | [GFG](#)
- Awarded for outstanding contributions to the 'Translate Existing English Videos into Different Languages' project at Atlas Copco   [Certificate](#)
- "Fishify: A Mobile-Based Fish Species Identification App with Transfer Learning Using MobileNetV1". Presented at SmartCom 2024 and subsequently Published by Springer.   [Link](#)
- "Edu-lingo: A Unified NLP Video System with Comprehensive Multilingual Subtitles", published as research by IEEE in IEEE Xplore.   [Link](#)