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TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, C, C++
- **Web development technologies:** Django, Flask, HTML5, CSS, React.js, Next.js, Bootstrap
- **Mobile app development technologies:** Flutter, Dart, React Native
- **Backend development technologies:** FastAPI, Sanic, Node.js, Express.js, Firebase, Appwrite, GraphQL, REST APIs
- **Database management tools:** PostgreSQL, MongoDB, Neo4J, SQLite3, MySQL, MS SQL Server
- **Miscellaneous:** Web Automation, Selenium, Numpy, Pandas, Message Queues, Web Scraping, Git, AWS EC2, Route53

PROFESSIONAL EXPERIENCE

- **Powerhouse AI (YC W22)** July 2023 – Current
Senior Backend Engineer 📍 Singapore (Remote)
 - Spearheaded the development and management of the backend and DevOps infrastructure, ensuring seamless operations and scalability.
 - I fine-tuned our AI algorithms to turbocharge pallet scanning and label counting in the warehouse. This resulted in a remarkable 40% improvement in speed and a 25% boost in accuracy, significantly elevating overall warehouse productivity.
 - Implemented a robust monitoring system utilizing Prometheus to analyze server data consumption and error rates, proactively identifying and rectifying system anomalies.
 - Engineered RESTful APIs in Python using Flask, facilitating seamless communication and data exchange across systems.
 - I have created admin dashboard infrastructure using Flask, Next.js for our customers to view their credits consumption and usage analytics.
 - Implemented comprehensive unit and functional testing strategies using pytest and unittest to maintain code quality and reliability.
 - I played a pivotal role in improving Algodocs' rule-based extraction efficiency, delivering a 25% boost in accuracy, reducing manual review effort by 30%.
 - Architected and managed an end-to-end AI/ML pipeline, optimizing data workflows and model deployment.
 - Leveraged computer vision expertise to design and develop highly efficient and precise AI algorithms for pallet box counting in the warehouse, contributing to process automation.Technology used: **Flask, Python, Next.js, Firebase, REST API, GCP, PostgreSQL, OpenCV and YOLO**
- **Yellow** March 2022 – July 2023
Software Development Engineer 📍 Bangalore, India (Remote)
 - Led the development of Yellow, a revolutionary digital Will-making app that simplifies the process of creating and updating Wills.
 - Created the mobile app from the ground up using Flutter and Bloc as state management tool, ensuring a seamless user experience across multiple platforms.
 - I have created configuration based UI component builder using Flutter and JSON, this saved huge amount of manual build releases to playstore, as components can be configured in backend and generated on fly in flutter.
 - Developed GraphQL APIs in the backend using Node.js and Apollo, enabling efficient data retrieval and manipulation.
 - Spearheaded the deployment of the company's applications on Google Cloud Platform (GCP), utilizing a range of GCP tools to ensure seamless performance and scalability.
 - Enabled seamless user onboarding and verification (KYC) through integration with IDfy, ensuring a smooth and secure user experience.
 - Leveraged GCP's Cloud Logging to monitor and troubleshoot application errors, while also using Cloud Storage for CDN to efficiently deliver content to end-users.Technology used: **Flutter, Node.js, Cloud Functions, Firebase, GraphQL and Next.js**
- **Specrion Technologies Pvt. Ltd.** April 2021 – January 2022
Product Development Intern 📍 Bangalore, India (Remote)
 - Led the development of ArogyaDrishti, a cutting-edge product designed to simplify the process of storing medical records digitally while ensuring the highest levels of privacy and security for customers.
 - Developed advanced algorithms that enabled the accurate recognition and extraction of critical health parameters from medical records, leveraging Amazon Textract and other state-of-the-art technologies.
 - Demonstrated expertise in health record digitization and analysis, leveraging a range of technologies such as OCR, machine learning, and task queues to deliver a world-class digital solution.
 - Improved the efficiency of the report processing service by 30% by implementing task queues (Django Celery) and enabling asynchronous processing of tasks, resulting in faster turnaround times and improved customer satisfaction.
 - Technology used: **Django framework, Amazon Textract, Python Celery, spaCy**

FREELANCE PROJECTS

- **Xtrasheet Students Web Portal** Dec 2020-May 2021
 - Designed and developed a comprehensive web application for managing school examinations, including features such as test creation, student batch enrollment, and proctored test administration.
 - Contributed to the development of a world-class product that has the potential to revolutionize the way schools manage their examination processes, improving efficiency, and student outcomes.
 - Demonstrated proficiency in developing complex web applications, with a strong focus on usability, performance, and security.
 - Technology used: **Django framework, HTML, CSS, React.js, MongoDB, Firebase Authentication**

- Open Beacon App** *May 2021-June 2021*
 - Designed and developed a mobile application using Flutter and native Android-Beacon-Library and CoreLocation IOS, enabling it to listen to nearby BLE devices and connect to them if their proximity UUID is registered in the database.
 - Implemented a robust database system to store the proximity UUIDs and associated information of each location, ensuring seamless and accurate retrieval of information.
 - Leveraged cutting-edge technologies to deliver a high-performance, user-friendly application that enables users to access relevant information about nearby locations with ease.
 - Contributed to the development of a groundbreaking product that has the potential to transform the way people interact with their surroundings, improving their overall experience and engagement.
 - Technology used: **Flutter, Firebase**
- Bullhorn Dialpad Integration** *June 2021-November 2021*
 - Collaborated closely with the Dialpad team to establish an integration framework using Sanic, facilitating seamless communication between Bullhorn CRM and Dialpad services.
 - Designed and developed the backend architecture, including API design, resulting in a 30% reduction in data processing time for Bullhorn CRM.
 - Implemented web sockets for real-time data streaming between the server and the Dialpad call center web client, achieving a 25% reduction in call record latency.
 - Ensured system reliability by writing comprehensive unit tests using the unittest library, resulting in a 20% decrease in post-release defects.
 - Technology used: **Sanic, Python, Redis, PostgreSQL, Web Sockets, FTP, REST APIs**
- Eazi, a hyperlocal app for local stores** *August 2021-October 2021*
 - Played a key role in the development of backend architecture and API gateway, leveraging the latest technologies and frameworks to deliver a high-performance and scalable solution.
 - Utilized the Python Graphene library to write complex queries over the Neo4j database, enabling seamless data retrieval and processing.
 - Developed a cutting-edge chat with voice calls feature using the Ejabberd framework, enabling users to communicate with each other in real-time with superior voice quality.
 - Technology used: **Django framework, Neo4J Database, GraphQL, Ejabberd (XMPP)**
- GraceParking Web App** *December 2021-January 2022*
 - Designed and developed a comprehensive parking management application for apartment complexes, leveraging cutting-edge technologies to deliver a seamless and intuitive user experience.
 - Built a robust web application using React.js and developed powerful backend APIs using FastAPI, enabling seamless data processing and retrieval.
 - Developed a sophisticated QR code generator service that enables users to easily authenticate their parking space, improving efficiency, and reducing congestion.
 - Technology used: **React.js, Material CSS, FastAPI, PostgreSQL**
- Time To Relax Instagram Bot** *December 2021-Feb 2022*
 - Developed a sophisticated Instagram bot using Python and Selenium to unblock subscribed users and provide them with access to exclusive health and yoga content.
 - Leveraged the Google Excel API to efficiently manage and manipulate customer data stored in an Excel file, enabling seamless data processing and retrieval.
 - Utilized the Stripe API to develop a robust subscription payment system, enabling customers to easily pay for their subscriptions and access premium content.
 - Technology used: **Python, Selenium, Stripe API, Google Excel API**

PROJECTS

- Gym Management System** *March 2020-April 2020*

Dr. Srinivas Mangalwede, Dept. of CSE, KLS Gogte Institute of Technology [GitHub](#)

 - Created a powerful gym management system using Python, Tkinter, and SQLite3, enabling efficient tracking and management of user and payment details.
 - Developed a range of key features, including CRUD operations, enabling easy management of user information and data.
 - Technology used: **Python, Tkinter, SQLite3**
- Extracting Weather Data using OpenWeatherMap API** *October 2021-November 2021*

Personal project [GitHub](#)

 - Designed and built a powerful weather data extraction and email tool using Python, Django REST framework, and Python Celery.
 - Leveraged OpenWeatherMap API to extract real-time weather information, and delivered the data to users via email on a set schedule.
 - Technology used: **Django REST framework, Python Celery**
- MCA Companies Info Scraping Tool** *May 2021-June 2021*

Personal project

 - Created a dynamic web scraping API using Python, Flask, BeautifulSoup, and Requests to collect companies' data from the Ministry of Corporate Affairs website based on user inputs.
 - Utilized image processing and OCR techniques using OpenCV to bypass reCAPTCHA and extract text, streamlining the data scraping process.
 - Technology used: **Flask, BeautifulSoup, Requests, OpenCV**
- Django Dyno UI** *September 2020-October 2020*

Personal project [GitHub](#) | [Demo](#)

 - Developed a Django-based web application that enables users to generate database models and schemas with ease and flexibility, streamlining the development process and enhancing productivity.
 - Technology used: **Django, SQLite3**

- Solana Custom Token Transaction App

March 2023-April 2023

Personal project

[GitHub](#) | [Article](#)

- Built a Node.js app to mint and transfer custom tokens over Solana blockchain.
- Documented the entire building process in a medium article to help others learn about Solana blockchain.
- Technology used: **Node.js, @solana/web3.js, Express**

- Simple Calendly Backend

April 2023-April 2023

Personal project

[GitHub](#) | [Demo](#)

- Built a Node.js, express app to show available slots of a user, able to book an appointment in available slots.
- Added OAuth authorization process using google services to leverage Google Drive API.
- Used zod for user input validation schema, this will make sure user is sending valid api inputs in request body.
- Technology used: **Node.js, Google Drive API, Express**

- Geolocation Dynamic Router

May 2023-May 2023

Personal project

[GitHub](#) | [Demo](#)

- Built a Node.js, express app to dynamically route web urls depending on user current location.
- For example, if I live in India then my web url should route me to <http://in.localhost:3000> or if I live in USA then it should route me to <http://us.localhost:3000>
- This uses geolocation services, ip address to coordinates reverse algorithm and finds nearest region url from your current location.
- Technology used: **Node.js, Express, Maxmind DB, Node Geocoder, Request IP**

- Wikipedia Search Flutter App

May 2023-May 2023

Personal project

[GitHub](#)

- Built a Wikipedia search app using Flutter to consume Wikipedia API and show articles search and articles detailed view in mobile application.
- Implemented both light and dark themes.
- Added shimmer effect while loading the search result to give a good user experience.
- Cache the responses with a cache eviction policy of having maximum 5 responses at one time. (LRU Cache)
- Technology used: **Flutter, Wikipedia Search API, BLoC state management**

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.E.	KLS Gogte Institute of Technology	9.57	2018-2022
Senior Secondary	Central Board of Secondary Education	93.2%	2017
Secondary	Central Board of Secondary Education	9.8	2015

KEY COURSES TAKEN

- **Computer Science:** Data Structures and algorithms, Operating Systems, Database Management, Computer networks, Computer architecture and organization, Computer lab, Finite Language and Automation theory
- **Machine Learning:** Supervised vs Unsupervised machine learning, classification, regression, dimension reduction, and clustering.
- **Others:** Probability & Random Processes, Linear Algebra, Signals and systems