

Chirag Chandrashekar

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SUMMARY

Full-Stack Software Engineer with expertise in designing scalable web applications and secure backend services. Proficient in front-end frameworks like React and Next.js, as well as backend development with Node.js and Express. Experienced with databases (PostgreSQL, MySQL, MongoDB), Docker for containerization, and deploying applications on cloud platforms. Skilled in implementing CI/CD pipelines, focusing on responsive design, authentication, and real-time data insights.

SKILLS

Languages & Frameworks: Python, Java, SQL, JavaScript, TypeScript, CSS, React, Node.js, Next.js, Flask, Express.

Version Control & Databases: Git, SQL Server, PostgreSQL, MongoDB, MySQL, Neon, Supabase.

Tools & Platforms: Docker, ServiceNow, HP ALM, Medidata Rave.

Data Analysis & Visualization: Pandas, BeautifulSoup, Matplotlib, Seaborn, Plotly.

PROFESSIONAL EXPERIENCE

Accenture

Bangalore, India

Data Analyst

10/2019 – 07/2022

- Optimized data pipelines and validation workflows in Medidata Rave by redesigning ETL processes, improving query efficiency, and automating data quality checks, which reduced discrepancies by 15% over 14 months. [**Medidata Rave**]
- Engineered and deployed a secure microservice using Python and REST APIs to aggregate, validate, and standardize clinical trial data from multiple external sources, enhancing scalability, reliability, and regulatory compliance. [**Python**]
- Designed and executed 280+ automated test cases in HP ALM, integrated them with CI/CD pipelines, and achieved 90% bug detection coverage, which reduced regression issues. [**HP ALM, CI/CD Pipeline**]

PROJECTS

Informative AI App

A web-based interactive AI prompt

- Built a modern AI-powered web app with Next.js and React, featuring responsive design, file/image uploads, multi-model selection, and dark/light mode. [**Next.js, React**]
- Implemented chat history, markdown rendering, and optimized builds for fast, production-ready performance.

Volunteering Management Page

Web App developed to integrate user authentication, event browsing, and event signup.

- Built a full-stack web application using React, Flask, and PostgreSQL with user authentication, event registration, and real-time participation tracking. Deployed it on Heroku and containerized it with Docker for consistent development and deployment environments. [**React, Flask, PostgreSQL, Heroku, Docker**]
- Automated web scraping of volunteer events using Python and BeautifulSoup every four hours, which ensured accurate, up-to-date scheduling and improved operational efficiency. [**Python, BeautifulSoup**]
- Designed a SQL-based data analysis pipeline that evaluated volunteer participation and event trends, optimized database operations, and supported data-driven strategic planning. [**SQL**]

Team Pressing Project: Premier League Analysis

Prediction module to predict injuries and goals per game in Premier League games

- Analyzed soccer team pressing metrics with Python and Pandas, revealing patterns in defensive intensity and ball recovery strategies through advanced statistics. [**Python, Pandas**]
- Created interactive visualizations using Matplotlib, Seaborn, and Plotly, including heatmaps and pressure-zone maps to communicate team and player performance insights. [**Matplotlib, Seaborn, Plotly**]
- Developed custom metrics like Pressing Intensity (PPDA) and predictive models using scikit-learn and PCA to assess team effectiveness in match-event data. [**PPDA, scikit-learn, PCA**]

EDUCATION

University of Colorado Boulder

Boulder, CO

Master's in Electrical Engineering (LINCD), CGPA: 3.88/4.0

08/2022 – 05/2024

BMS College of Engineering

Bangalore, IN

Electronics and Communication Engineering, CGPA: 8.2/10

08/2015 – 05/2019