**Chandra Prakash Babu Ponduri**

Data Analyst

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**Summary**

* Working as a Data Analyst in my GRA position, skilled in collecting data from websites, cleaning it using Python libraries and SQL, and improving accuracy with ML models and AI.
* Proficient in full-stack development using the MERN stack and experienced in building web and mobile applications with React, Angular and the Ionic framework.
* Skilled in backend development, leveraging Node.js and Express.js to build scalable APIs and database management systems using both MongoDB (NoSQL) and SQL.
* Strong expertise in frontend development, using frameworks like React and Angular, combined with modern CSS libraries to create intuitive and responsive user interfaces.
* Hands-on experience with tools like Git for version control, Docker for containerization, and cloud platforms such as AWS (S3, EC2, IAM) and Google Cloud for deploying and managing applications.
* Good knowledge of computer networking, operating systems, data structures, and advanced algorithms, enabling me to build efficient, reliable, and high-quality solutions.
* Excited to learn and work with new technologies like artificial intelligence, Generative AI, Open AI, machine learning and blockchain, using them in my current projects.
* Skilled in Data Analysis, project management, web design, and problem-solving to deliver creative and effective solutions in a fast-changing tech world.

**EDUCATION**

**Master’s in computer science** | GPA: 3.90 | Wichita State University | Wichita, KS | Aug 2024 - May 2026

**Bachelor’s in computer science** | GPA: 8.67 Vasireddy Venkatadri Institute of Technology | India | Jan 2020 - Apr 2024

**SKILLS**

**Programming Languages:** C, Java, Python, JavaScript, HTML, CSS, SQL, TypeScript, Object-Oriented Programming (OOP).

**Frontend Development:** React.js, Angular, Next.js, Tailwind CSS, Material Tailwind, React Redux, Responsive Web Design, HTML5, CSS3, JavaScript, Component-Based Architecture.

**Backend Development:** API Development, RESTful APIs, Server-Side Development, Node.js, Express.js, Web Services, Middleware.

**Database Management:** MySQL, MongoDB, Oracle, NoSQL Databases, SQL Databases, Normalization, Triggers, Backup & Recovery.

**Development Tools:** Docker, Git (Version Control), GitHub & Gitlab (Source Code Management), Visual Studio Code, IntelliJ IDEA, Eclipse, Android Studio, Jupyter Notebook, Postman, Swagger.

**Cloud Technologies:** AWS, Firebase, Azure & GCP (Knowledge).

**Mobile App Development:** React Native, Ionic Framework, Android Studio (Knowledge).

**Emerging Technologies:** Machine Learning (ML), Artificial Intelligence (AI), Scikit-learn, OpenAI, Generative AI, Data Analysis, Convolutional Neural Networks (CNN), Blockchain, Deep Learning, Data Science.

**CERTIFICATIONS**

AI-ML Virtual Internship | AWS Jan 2023

Google Cloud Specialization | Coursera Oct 2022

Java Full Stack | Wipro Aug 2023

Salesforce Developer Virtual Internship | Salesforce April 2023

**ACHIEVEMENTS**

National-level industry-driven 24-hour Hackathon Oct 2023

* **Skills**: React JS, Node JS, Mongo DB, APIs, Tailwind CSS.

**EXPERIENCE**

**Graduate Research Assistant** | Wichita State University | Wichita, USA | Sep 2024 - May 2025

* Data Collection & Scraping: Scraped over 100,000 records from 11 top journals, gathering detailed information on articles, authors, and universities using Python automation (Selenium). Implemented error handling (try-catch method) to ensure smooth execution.
* Data Cleaning & Integration: Used Pandas for basic data cleaning and connected the data with SQL to merge common fields, analyze results, and update results.
* Author Information Extraction: Utilized OpenAI API to extract structured details such as university, department, country, and state from unstructured author descriptions.
* Standardizing Author Names: Applied Machine Learning models like cosine similarity and DBSCAN clustering to unify author names, improving the accuracy of author rankings.

**Software Developer** | 7 Dots Smart Solutions Pvt Ltd | Hyderabad, India | Dec 2023 - Jun 2024

* Developed the frontend of an event reply website using Angular and improved a mobile app using the Ionic Framework, focusing on responsiveness and seamless functionality.
* Used Jira to track tasks and progress, and managed code version control with Git and GitHub, resolving merge conflicts and handling pull/push operations.
* Identified and fixed major bugs in web and mobile applications, gaining a deep understanding of project architecture through debugging and research.
* Collaborated with the CEO to address critical app issues, ensuring a smooth mobile app launch during a major US event, leading to significant company profits.

**Full Stack Developer (Intern)** | Atoms Digital Solutions | Guntur, India (Remote) | Sep 2023 - Dec 2023

* Used React to design and implement UI components, improving the functionality and visual appeal of the website.
* Contributed to creating a responsive and interactive design, ensuring an engaging and user-friendly interface.
* Utilized Git and GitHub for version control, managing pull requests, and maintaining the project’s codebase.

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**PROJECTS**

**Event Reply App** Dec 2023 - Jun 2024

* Fixed UI and functionality issues to improve performance and user experience of the project.
* Built API components to connect the app to backend services.
* Helped successfully launch the app during a major US event, contributing to company profits.

**Skills:** Ionic Framework, Sass, Stripe

**Link:** <https://m.eventreply.com>

**Atoms Company Website** Sep 2023 - Dec 2023

* Designed and built UI components to improve the app's look and ensure it works smoothly on all devices.

**Link:** <https://atomsgroup.net/>

**Skills:** React JS, Tailwind CSS, AWS S3

**College Clubs Website** Jan 2024 - Mar 2024

* Designed UI components and managed state effectively using redux toolkit.
* Created API calls and handled routing using Express.js.
* Used MongoDB as the NoSQL database for data storage. Integrated AWS S3 for image storage and retrieval.

**Skills:** React JS, Express JS, Node JS, Mongo DB, Redux Toolkit, Tailwind CSS, Material Tailwind.

**Link:** <https://vvit-clubs.vercel.app/>

**Journals Data Scraping** Sep 2024-Present

* Developed a robust Python-based web scraping solution to efficiently extract and manage over 110,000 records from 11

academic journals, ensuring seamless execution and advanced error handling for uninterrupted data retrieval.

* Implemented advanced data cleaning techniques using Excel, Python functions, SQL and AI-powered tools like Numerous.ai and OpenAI to ensure highly accurate and refined datasets from scraped academic journal records.
* Utilized Python Pandas library for efficient data cleaning and preprocessing, and leveraged SQL join operations to seamlessly merge different data versions. Used ML models for same author names to get better author ranking.

**Skills**: Python, Open AI, Excel, Selenium, SQL, ML.