

Sarella Sai Durga Prasad

Career Objective

Associate Software Engineer with hands-on experience in Python for data scraping, transformation, and automation. Skilled in building scalable frontend applications and integrating cloud platforms. Proficient in leveraging LLMs (ChatGPT, Claude, DeepSeek, Grok) to optimize workflows and accelerate development. Seeking an opportunity to contribute to data-driven products where Python, modern web technologies, and AI tools can be applied to solve real-world problems, AI Bot: ai-bot-prasad.web.app.

Experience

Feb 2023 - **Associate Software Engineer - ASE, EchorTech (Cygnus Digital Innovations)**

- June 2025
 - Developed and maintained full-scale, production-grade applications using **React.js, Next.js, React-Native, Java script, Svelte**, with scalable component structures and reusable design systems.
 - Engineered high-performance, pixel-perfect user interfaces using **Tailwind CSS, Bootstrap, SCSS, MUI, and G-Sap**, transforming Figma/UX designs into clean, responsive frontend code.
 - Integrated cloud-based authentication, databases, and file systems using **Firebase, AWS Cognito, Amplify, S3**.
 - Built and consumed RESTful APIs using **Postman, Swagger**; worked with data formats (JSON, CSV) and performed dynamic data visualizations.
 - Used **MongoDB and PostgreSQL** for database design and efficient data access in real-world projects like crypto dashboards and logistics platforms.
 - Integrated **OpenStreetMap (OSM)** for location-based features including geo-tagging, user tracking, and map-based UI interactions.
 - Wrote and managed Python scripts for **web scraping and data migration** using BeautifulSoup and Requests to collect real-time financial and listing data.
 - Collaborated in Git/GitHub-based version control workflows with code reviews, CI/CD pipelines, and production deployment support.
 - Leveraged **LLMs like ChatGPT, Claude, DeepSeek, Grok, Bolt** to automate UI scaffolding, generate test cases, refactor legacy code, and debug in real time — increasing delivery speed and reliability.
 - Ensured SEO optimization, accessibility compliance, and performance benchmarks across all major browsers and mobile platforms.

Key Projects

- PERSONAL PROJECT** : AI Bot build with Open source AI models, MERN stack Live Link: ai-bot-prasad.web.app
- CRYPTO-PATEL**: Built a crypto/blockchain news dashboard with real-time APIs, responsive charts, and mobile-first design.
- QUANT CHECK**: Designed a crypto currency backtesting platform with strategy analytics, historical data visualization, and insights dashboard.
- LANDWEY**: Developed a full-featured real estate platform with location-based search, listing management, and admin dashboard.
- KEBAPP**: Created a Telegram Mini App + responsive web dashboard for food ordering and restaurant onboarding across countries.
- SAMSTAPANA**: Built a professional website for a construction firm with modern animations, SEO, and mobile optimization.

Apprenticeship / Industrial Training

- Bharat Heavy Electricals Ltd (BHEL), Hyderabad**

Gained exposure to industrial-scale operations, automation systems, and safety processes.

○ Sandvik Asia Pvt. Ltd., Hyderabad

Hands-on experience in quality control, manufacturing pipelines, and engineering processes.

Skills

- **Frontend:** React.js, Next.js, React Native, Svelte, ES6, Java Script, HTML, CSS
- **Styling UI:** Tailwind CSS, SASS, Bootstrap, MUI, G-Sap, Antd, jQuery
- **Backend:** Java (J2SE), Node.js
- **Databases:** MongoDB, PostgreSQL, MySQL, DynamoDB
- **Cloud DevOps:** Firebase, AWS Cognito, Amplify, S3
- **APIs Tools:** REST, Postman, Swagger, Git, GitHub
- **AI LLMs:** ChatGPT, Claude, DeepSeek, Grok, Bolt (for coding, testing, debugging)
- **AI LLMs for Development:** Used advanced AI tools such as **ChatGPT, Claude, DeepSeek, Grok, Bolt** to:
 - Generate reusable React components and form logic
 - Refactor large codebases and convert JS to TS
 - Auto-generate test cases and validate API schemas
 - Assist in writing Python scraping scripts and backend logic
 - Speed up bug fixing, validation, and cross-browser compatibility checks
- **Web Scraping:** Python (BeautifulSoup, Requests), Data Extraction Migration
- **Maps Geo:** OpenStreetMap (OSM), map-based UI, location tagging
- **Other:** SEO, Performance Optimization, Cross-browser Testing, Deployment

Education

- 2019 – 2022 **B.Tech in Computer Science Engineering**, *DRK Institute of Science and Technology (JNTUH)*
CGPA: 6.66
- 2014 – 2018 **Diploma in Metallurgical Engineering**, *JNGP (SBTET)*
Percentage: 67.48%
- 2014 **Secondary School Certificate (SSC)**, *ZPHS (BSE Board)*
GPA: 6.2

Academic Projects

- **Mini Project:** Detecting Fake Statements Made by Public Figures Using AI. *Technologies:* Python, PyCharm, MySQL, Windows 7, Visual Studio Code
- **Major Project:** SEPDSF – Secure and Efficient Privacy-Preserving Data Possession in Cloud Storage. *Technologies:* Java (J2SE), MySQL, NetBeans 7.2.1, Windows 11

Certifications

- 2022 – 2023 **Java Full Stack Development Certification Tecknowledge Institution**
Covered Java, REST APIs, MySQL, HTML/CSS/JS
- In Progress AWS Certified Developer – Associate
- Upcoming Google Cloud Associate Engineer (Planned)

Core Technical Foundation

- **Data Structures Algorithms:** Strong understanding of memory-efficient structures, search/sort techniques, and optimization strategies.
- **Object-Oriented Programming (OOP):** Applied OOP principles in real projects using Java and JavaScript for modular, reusable code.
- **Database Systems:** Skilled in relational and NoSQL models (PostgreSQL, MySQL, MongoDB); experienced with indexing, joins, and data modeling.

- **Operating Systems:** Familiar with process/thread management, memory allocation, and file systems in Linux environments.
- **Computer Networks:** Solid knowledge of HTTP/HTTPS, TCP/IP, DNS, WebSockets, and REST APIs used in modern web applications.
- **Software Engineering:** Version control (Git), Agile workflow, debugging tools, CI/CD understanding, and deployment practices.

Portfolio Links

Portfolio <https://prasadwebsite-25224.web.app/>

LinkedIn <https://linkedin.com/in/sarella-sai-durga-prasad-25543225a>