Chaitanya Ratnaparkhi

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SUMMARY

Aspiring Software Developer with hands-on experience in full-stack development building scalable web applications, RESTful APIs, and database management. Skilled in Python, Java, JavaScript, Fast API, Flask and SQL, with experience in optimizing server performance and integrating secure authentication systems.

SKILLS

- **Programming Languages:** C, C++, Python, Java, SQL, JavaScript (ES6+), TypeScript
- **Frameworks & Libraries:** jQuery, Tailwind CSS, React.js, Node.js, Spring Boot, TensorFlow
- **Web Technologies:** HTML5, CSS3, PHP (Basic), Bootstrap, XML, RESTful API Development, JSON
- **Databases:** MySQL, Oracle, Database Design & Optimization
- **Tools & Platforms:** Power BI, Postman API Testing, Tableau, Google Analytics, Azure (Basic), AWS Lambda
- **Version Control & Collaboration:** Git, GitHub, Agile/Scrum Methodologies, CI/CD Pipelines
- **Soft Skills:** Effective Communication, Problem-Solving, Team Collaboration, Attention to Detail

EDUCATION

Master of Science in Computer Science | Stevens Institute of Technology, NJ, USA   May 2025
Bachelor of Engineering in Computer Science | Marathwada Mitra Mandal's College of Engg., India   June 2023

EXPERIENCE

Innovatus Technologies, India | Software Analyst | Aug 2021- May 2022

- Developed FastAPI microservices for Market Data collection, User Data management, and Bulk Data Load, improving API response times by 20%.
- Maintained and enhanced Java Spring Boot APIs, implementing globalization and localization updates while synchronizing PostgreSQL and Salesforce, improving data accuracy by 30%.
- Automated Salesforce Bulk Data ingestion using AWS Lambda, AppFlows, and S3 backups, reducing manual data handling by 40%.
- Utilized Git CLI and GitHub Desktop for efficient version control, ensuring seamless collaboration and code management.
- Collaborated with QA to design unit and integration tests, increasing system reliability and reducing production defects by 20%.

PROJECTS

AI-Powered Portfolio Chatbot | May 2025

- Engineered a full-stack, AI-driven chatbot embedded into my portfolio to autonomously handle real-time queries about my skills, projects, and experience.
- Leveraged OpenRouter's GPT API with secure environment-based token handling to dynamically serve LLM responses.
- Architected a responsive frontend with vanilla JavaScript, supporting theme toggling, chat avatars, and keyboard interaction.
- Deployed a stateless Node.js backend via Render, serving static assets and processing JSON-based chat interactions with CORS management and error resilience.

ArtistHub | May 2024

- Developed a feature-rich website integrating E-Commerce, Dashboard, User Registration, and Payment Gateway, ensuring seamless transactions.
- Optimized server architecture, improving data retrieval speed by 60%, enhancing performance and user experience.
- Strengthened backend stability and scalability through advanced routing and backend function optimization while maintaining high security standards.
- Integrated role-based authentication and secure session management, ensuring data privacy and compliance with best practices.

Adventure (Game) | Nov 2023

- Built a text-based adventure game using JSON for dynamic game map storage and interactive user navigation.
- Designed interconnected rooms with unique elements, enhancing gameplay depth and engagement.
- Ensured maintainability by incorporating inline documentation, facilitating easy future modifications.
- Implemented modular game logic and error handling, ensuring smooth user interactions and reliable gameplay experience.

JSON REST API for User Forums | Sept 2023

- Engineered a Flask-based API with SQLite, featuring user authentication, post creation, threaded replies, and date-based queries.
- Used Postman to test endpoints, implemented user profiles, and threaded replies.
- Conducted rigorous testing, eliminating bugs/issues, ensuring reliability in range-based queries and post retrieval. Delivered fully RESTful endpoints for CRUD operations, securing seamless user interactions.
- Enhanced model efficiency through data preprocessing, feature extraction, and MLFlow deployment for testing and production.

SKIN Disease Detection Using ML | Aug 2022

- Built an AI-powered web app using CNN for skin disease detection, achieving 94% accuracy with optimized hyperparameters
- Enhanced model efficiency through data preprocessing, feature extraction, and MLFlow deployment for testing and production.
- Compared multiple ML models and applied batch normalization with dropout to improve generalization.
- Tuned hyperparameters and visualized results to refine feature selection, ensuring more reliable inference metrics.
- Deployed CNN models with MLflow, ensuring reproducibility, version control, and seamless production rollout.
- Implemented Grad-CAM visualizations to interpret CNN predictions, enhancing transparency and clinical trust in the model.