

# PRANITHA P

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## SKILLS

Programming Languages: Java, Springboot, Python, HTML, CSS, JavaScript, Typescript, PHP, NodeJS, SQL, WordPress  
Frameworks & Libraries: Pandas, Numpy, Matplotlib, Seaborn, Sci-kit-learn, PyTorch, Spacy, NLP, OpenCV, Hadoop, Bootstrap, JQuery  
Cloud & Data Platforms: Google Cloud Platform (BigQuery, Cloud Composer, Cloud Storage, Vertex AI), AWS (S3, EC2, Lambda), PostgreSQL, MySQL  
Project Management: Agile, Scrum  
DevOps & Tools: GitHub Actions, CI/CD, Postman, Docker, Linux, WHM, Replit, Eclipse, VSCode, Microsoft Copilot  
Data & Visualization: Power BI, Tableau, Google Data Studio, Jupyter Notebook, Microsoft Excel  
Project & Workflow Management: Agile, Scrum, Jira, Confluence

## WORK EXPERIENCE

### Cloud AI Engineer | TechExpertsUs LLC | Texas, USA

May 2025 – Present

- Engineered **cloud-hosted applications and APIs** for AI-driven automation, real-time data exchange, and scalable multi-channel workflows.
- Built **data pipelines, cloud databases (MongoDB, PostgreSQL, BigQuery), and REST/GraphQL APIs** to ingest, transform, and serve AI data.
- Developed **serverless functions** (AWS Lambda, Cloud Functions) and automated **CI/CD pipelines** (GitHub Actions, Docker) for efficient deployments.
- Integrated **AI services and chatbot middleware** (OpenAI, Vertex AI) with payment gateways to deliver scalable, personalized solutions.
- Applied **UI/UX best practices** to dashboards and interfaces for AI insights, while ensuring **security and compliance** via JWT/OAuth2, RBAC, and encrypted storage.

### Software Developer | SiAnth Inc | Alpharetta, USA

May 2024 - Apr 2025

- Designed and implemented **scalable backend services** using JavaScript, Python, and TypeScript, with modular architecture, cloud-ready deployment, and **MongoDB/PostgreSQL** for high-performance data storage.
- Developed and maintained **RESTful and GraphQL APIs** (Node.js, Apollo Server, Flask) with optimized queries, JWT-based authentication, and role-based access control for secure, efficient client-service communication.
- Applied **UI/UX best practices** with reusable components, intuitive navigation, accessibility (WCAG), and mobile-responsive layouts.
- Leveraged **GCP services** (BigQuery, Cloud Composer/Airflow, Cloud Storage) and integrated **Stripe API** for secure payments, streamlining backend workflows and CI/CD deployment.
- Authored **API documentation**, tested endpoints with Postman, and deployed applications on Replit and GCP, ensuring reliability, security, and collaboration

### Senior Software Developer | Multiplier AI Solutions | Hyderabad, India

July 2021 – Dec 2022

- Collaborated with marketing and engineering teams to design, optimize, and maintain **100+ cross-platform web pages**, applying UI/UX best practices to improve accessibility, consistency, and overall user experience.
- Led end-to-end web development using **JavaScript, React, Bootstrap, PHP, JSON, and WordPress**, building custom themes/plugins, integrating REST APIs, and supporting scalable applications with backend logic, resulting in **30% performance improvement** and faster load times.
- Automated workflows including **email and WhatsApp notifications using Python**, implemented payment gateway integrations and API testing, and improved **SEO and engagement** through analytics (Google Analytics, GTM), while managing hosting, DNS, and deployments for **15+ domains**.

## PROJECTS

### RESTful API for Online Appointment Scheduling

- Built RESTful APIs to support appointment booking, updates, and cancellations. Implemented authentication and authorization to ensure secure access to API endpoints.
- Designed efficient database schemas and optimized queries for faster response times.
- Tested APIs using tools like Postman and documented endpoints for ease of integration.

### Online Food Ordering Web Application

- Developed a full-stack web application to manage users, restaurants, menus, and orders. Integrated frontend components with backend APIs for seamless data flow.
- Implemented secure user authentication and role-based access control.
- Deployed the application in a cloud environment.

### Enhancing Water Body Detection on Satellite Images

- Designed an ML-based image processing pipeline for water body detection and segmentation from satellite imagery using preprocessing and segmentation techniques (HSV, edge detection, thresholding, K-Means), achieving 99.2% precision and 98.3% recall.
- Automated large-scale geospatial processing, reducing manual mapping time by 40%+, and generated visual comparison maps to support environmental monitoring and flood assessment.

## EDUCATION

- University of North Texas  
Master's in Computer Science  
Texas, US
- JB Institute of Engineering and Technology  
Bachelor of Technology - Information Technology  
Hyderabad, India