

BALAJI THOTA

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PROFESSIONAL SUMMARY

Full-Stack Developer with expertise in building scalable web applications, optimizing system performance, and securing RESTful APIs. Proficient in Python, JavaScript, SQL, Flask, Django, and React.js. Experienced in cloud platforms, Agile development, and CI/CD pipelines for automated deployments. Passionate about delivering efficient, high-performance solutions for enterprise applications.

TECHNICAL & INTERPERSONAL SKILLS

Programming & Frameworks: Python, JavaScript, Node.js, Flask, Django, React.js, HTML, CSS, Bootstrap

Databases & Cloud: MySQL, PostgreSQL, MongoDB, SQLite, AWS, Docker

Development Tools: Git/GitHub, VS Code, RESTful APIs, WebSockets, CI/CD

Soft Skills: Teamwork, Communication, Time Management, Problem-Solving, Adaptability

EDUCATION

State University of New York (Utica, NY) - MS in Computer Science

Jan 2023 – Dec 2024

Coursework: Data Science, Algorithms & Complexity, OS, Database Systems, SE, Distributed Computing

GPA: 3.44/4.0

EXPERIENCE

Web App Developer Intern, Omnytrix Integrated Labs - Hyderabad, India

May 2022 – Nov 2022

- Developed and optimized real-time IoT web apps, reducing latency and improving system efficiency by 15%.
- Designed secure RESTful APIs and data pipelines for real-time analytics and reporting.
- Contributed to Agile sprints, performing design reviews and implementing performance optimizations.
- Automated deployment processes using CI&CD pipelines, reducing manual intervention and improving release efficiency.

Tech Stack: Python, JavaScript, Flask, Django, REST APIs, Git, SQL, WebSockets.

Volunteer Full Stack Developer, Datadot Software Solution (Remote) - Hyderabad, India

May 2020 – Apr 2022

- Volunteered remotely during COVID-19, assisting in full-stack web development projects under senior developer mentorship.
- Participated in daily scrum meetings and status calls, gaining exposure to agile workflows and professional software practices.
- Gained understanding of how SQL queries are optimized, API security practices, and backend troubleshooting methods.
- Observed and learned from projects involving scalable web applications, database management, and distributed systems.

Tech Stack: Python, Java, Flask, Django, MySQL, PostgreSQL, GraphQL, Docker, Kubernetes.

PROJECTS

Thota Motors – Web Application | React.js, JSX | [Website](#) | [GitHub](#)

Present 2025

- Developed a responsive website for a family business, integrating front-end technologies. Planned back-end integration with Django and a database for employee authentication and role management.

Extending Forward-Forward Algorithm | ML, Optimization | [GitHub](#)

Nov 2024

- Enhanced the Forward-Forward algorithm for complex datasets by improving efficiency and exploring alternative learning techniques beyond backpropagation.

Orgdb Database Management System | MySQL, Python | [GitHub](#)

Apr 2024

- Designed a role-based access control database system for efficient data management, implementing secure authentication and user privilege management.

Image Captioning | Python, PyTorch | [OneDrive](#)

Feb 2024

- Developed an LSTM-based image captioning model generating human-like captions using the Flickr-8k dataset. Integrated GloVe for context-aware captions, improving accessibility and retrieval.

For additional projects and details, visit: [GitHub Portfolio](#)

CERTIFICATIONS

- **Python for Everybody Specialization, Web Design for Everybody** | University of Michigan, Coursera
- **Front-End Developer, Back-End Developer** (In Progress) | Meta, Coursera
- **Amazon EC2 Basics, RDS Primer, Fundamentals** (In Progress) | AWS, Coursera