Atharva Sarvesh Devasthali

Software Engineer | Full Stack Developer | Python & TypeScript | Scalable UI Systems | ML Enthusiast

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Frontend-focused full-stack engineer with 3+ years of experience building scalable, accessible, and high-performance web apps. Led **frontend development for 8+ Google products**, improved site performance by 90%, and reduced dev cycle time by 40%. Built **scalable frontend components** and streamlined development with **automation**.

Education

University of Texas at Arlington   Arlington, TX
Master of Science in Computer Science   *August 2023 - May 2025*

- **Courses**: Design and Analysis of Algorithms, Data Mining, Machine Learning, Neural Networks, Artificial Intelligence, Computer Vision, Web Data Management, Cloud Computing & Big Data, Numerical Methods.

Maharashtra Institute of Technology   Pune, India
Bachelor of Engineering in Information Technology   *July 2016 - April 2020*

Work Experience

Cybage Software Pvt. Ltd.   Pune, India
Software Engineer (Client: Google)   *December 2020 - July 2023*

- Led development and maintenance for **8+ high-traffic marketing websites** for **Google** (including Google Sustainability, Google Lens, Google Translate About), utilizing **Python, TypeScript, Flask, and Django**.
- Ensured **WCAG-compliant accessibility**, and enhanced **user engagement by 80%** and **site performance by 90%**, following modern engineering practices like **code reviews, test automation, and performance optimization**.
- Drove **frontend test coverage** through unit and integration tests, and contributed to **CI/CD automation** on **Google Cloud Platform (GCP)** for multi-locale builds, **cutting deployment time by 40%**.
- Collaborated with **cross-functional teams** including designers, PMs, and QA to ensure seamless feature rollouts and user-focused UX enhancements.
- Trained **25+ developers** on modern **JavaScript animation** techniques, to enhance animation and creative UI experiences.

Projects

Interactive Portfolio Website with React-based Admin CMS Tool | React, Redux, Django, Firebase, GSAP, Webpack | Link

- Developed a dynamic portfolio using Django templating and Webpack, improved page performance through lazy loading, and implemented **SEO best practices, and responsive mobile-friendly design**, achieving a **92+ performance score**.
- Created a **CMS tool using React and Vite**, enabling real-time content updates, utilizing a schema-driven **NoSQL structure**.
- Implemented **smooth GSAP animations** for engaging UI transitions and integrated the **CMS with the Django backend** to maintain a seamless content pipeline.

Chatbot for Automated Message Approval | FastAPI, Render, Next.js, MongoDB, TypeScript | GitHub Link

- Developed a **FastAPI-based chatbot** that automates message approval in GroupMe, reducing **manual moderation time by 80%**, improving **response time by 50%**, and integrating admin control features for efficient message processing.
- Integrated **Perplexity API (LLM)** to analyze and refine messages before approval, reducing inappropriate content by 60% and improving message clarity.

Facial Expression Detection API | TensorFlow, RESTful API, FastAPI, Streamlit, Docker | GitHub Link | Link

- Built a **CNN model** for facial expression recognition with **80% accuracy** trained on **15,000+ labeled images** with techniques like **data augmentation**, **regularization**, and **hyperparameter tuning** to combat overfitting.
- Constructed **interactive interfaces via Gradio**, enabling seamless integration, and deployed in **Docker containers** on **Hugging Face**, delivering real-time predictions with an **average response time of under 500 ms**.

Skills

Languages: Python, Go, Java
Front-End: JavaScript, TypeScript, React, Next.js, Angular, HTML, CSS (Sass/SCSS)
Back-End: Flask, Django, FastAPI, Node.js, Express.js, GraphQL
Database/Cloud: PostgreSQL, MySQL, MongoDB, Firebase, Google Cloud Platform
AI/ML: TensorFlow, Keras, OpenCV, Data Mining, Selenium, Hugging Face, Large Language Models (LLM)
DevOps/Build Tools: Git, Docker, CI/CD (GitHub Actions, Vercel, Render), REST APIs, Webpack, Jest
Authentication & Security: OAuth, JWT, SAML
Certifications: IBM: Front-End Apps with React (Jan 2025), IBM: Containers (Docker, K8s, OpenShift) (Sep 2024), IBM: AI with Python and Flask (May 2024), Udemy: Django Full Stack Bootcamp (Jun 2024), IBM: Web Dev Fundamentals (Jun 2024)

Publications

Published a research paper titled **"IoT Based Inventory Management System with Recipe Recommendation using Collaborative Filtering"** in the International Conference on Evolutionary Computing and Mobile Sustainable Networks **(ICECMSN) Journal (pp. 543-550) by Springer.**