

Atharva Sarvesh Devasthali

Software Engineer | AI/ML & Full-Stack Development

Dallas, TX | Open to relocation
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Full-stack software engineer with **3+ years** building production applications using **React, TypeScript, Python, and AI/ML systems**. Proven track record **optimizing performance by 90%**, mentoring **25+ developers**, and delivering scalable solutions for millions of users.

Work Experience

Software Developer Intern (Backend & AI/ML)

Smart Cookie Rewards

Remote, USA

August 2025 - Present

- Architected production **RAG system** integrating **Supabase vector store** with **n8n workflows**, enabling automated content generation that reduced manual creation by **85%**.
- Designed **conversational AI using Gemini/ChatGPT LLMs APIs**, enabling semantic search capabilities for **500+ documents**.
- Developed **FastAPI microservices** with Docker containerization, processing **100+ automation requests daily**.
- Built email automation using **n8n + Gmail API** with real-time failure alerting, achieving **99.5% uptime** over 6-month period.

Software Engineer | Google Client Projects

Cybage Software Pvt. Ltd.

Pune, India

December 2020 - July 2023

- Developed and maintained **8+ high-traffic Google marketing sites** (**Google Lens, Google Translate, Google Sustainability**) serving **millions of daily users**, built with **TypeScript, SCSS, and Python/Flask**.
- Reduced page load times by **90%** through code-splitting, lazy loading, and image optimization, achieving **Lighthouse scores of 92+** across all properties.
- Analyzed **Google Analytics data** to drive UI/UX improvements, increasing **user engagement by 80%** through data-driven optimization of click patterns and scroll behavior.
- Ensured **WCAG 2.1 AA compliance** for **10M+ monthly users** by implementing semantic HTML, ARIA labels, and comprehensive keyboard navigation.
- Built **CI/CD pipelines in GCP** with infrastructure automation, reducing **deployment cycles by 40%** and improving developer experience through streamlined workflows.
- Coordinated across cross-functional teams and mentored **25+ developers** on JavaScript/TypeScript best practices through regular code reviews and pair programming.

Education

Masters in Computer Science

University of Texas at Arlington

Arlington, TX

August 2023 - May 2025

Bachelor of Engineering in Information Technology

Maharashtra Institute of Technology

Pune, India

July 2016 - April 2020

Technical Skills

Languages: JavaScript, TypeScript, Python, Go, Java, SQL, C++

Frontend: React, Next.js, Angular, React Native, Electron, TypeScript, HTML/CSS, SCSS, Tailwind CSS, GSAP, Webpack, Vite

Backend & APIs: FastAPI, Flask, Django, Node.js, Gin, REST APIs, GraphQL, Microservices

AI/ML: LLM Integration, RAG Systems, Supabase, PyTorch, TensorFlow, Keras, Multi-Agent Systems, Prompt Engineering

State Management: Redux, Zustand, React Query, React Context

Databases: PostgreSQL, MySQL, MongoDB, Redis, Firebase

Cloud & DevOps: Docker, GCP, AWS, CI/CD (GitHub Actions, Jenkins), Git, NGINX, Linux

Testing: Jest, pytest, Selenium, TDD

Projects

StackPilot - Self-Hosted DevOps Control Plane | Go, Astro, React, TypeScript, Docker, Kubernetes

- Architected comprehensive **DevOps platform** for deploying, observing, and scaling applications with **Docker/Kubernetes orchestration**, integrated **Prometheus/Grafana monitoring**, and automated **CI/CD workflows**.
- Built **full-stack control plane** with **Go backend APIs** and modern **React/TypeScript dashboard** featuring **real-time deployment status**, resource monitoring, and **data visualization** for infrastructure observability.
- Designed **secure secrets management** with **JWT authentication, AES-256 encryption, RBAC**, and **audit logging** for **SOC2/HIPAA compliance**, enabling enterprise-grade infrastructure automation.

Automated Video Generator | n8n, FastAPI, Docker, FFmpeg, Linux | [GitHub](#)

- Orchestrated **multi-agent automation system** with specialized agents (text-to-speech, PPT-to-image, video synthesis) via **n8n/FastAPI microservices**, creating **6+ hours of daily video content** and reducing production time by **85%**.

- Designed **event-driven architecture** using webhooks for real-time inter-service communication, enabling **parallel processing** of multiple requests simultaneously.
- Deployed production infrastructure on **Linux with NGINX reverse proxy** and automated **YouTube streaming via OBS WebSocket**, generating **60+ videos weekly**.

Publications & Certifications

Research: Published first-author [research paper](#) "IoT Based Inventory Management System with Recipe Recommendation using Collaborative Filtering" in Springer ICECMSN Conference (LNDECT Vol. 53, pp. 543-550). Designed collaborative filtering algorithm from scratch. *1,313 accesses, 1 citation*.

Certifications: IBM Full Stack Developer Professional (2024-25), IBM AI Engineering Professional (2024-25), Java Programming Masterclass (2025), Django Bootcamp (2024)