

Vighnesha N U

SDE — Senior Full-Stack Developer
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PROFESSIONAL SUMMARY

- Full Stack Engineer with 3+ years of experience building scalable, secure, and performant web applications using **React (TypeScript, Tailwind)** and **Python (FastAPI)**. Skilled in architecting and deploying microservices on **AWS** using **Docker** and **CI/CD pipelines**. Experienced in **asynchronous programming, authentication, and cloud-native system design**, with a strong focus on scalability, maintainability, and performance optimization.

CORE COMPETENCIES

- **Frontend:** React.js, Next.js, TypeScript, TailwindCSS, Redux
- **Backend:** Python (FastAPI, Flask & Django), Node.js, RESTful API Design, Async Programming
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, Amplify), Docker, CI/CD (GitHub Actions, Jenkins), Nginx, Cloudflare
- **Databases:** PostgreSQL, MongoDB, Redis, Firebase, Supabase
- **Programming:** Python, JavaScript, TypeScript, Bash
- **System Design:** Authentication, Authorization, Scalability, Load Balancing, Microservices

EXPERIENCE

- **Idbookhotels** Gurgaon
Product & Software Engineer Aug 2024 – Present
 - **Full-Stack Development:** Engineered and deployed scalable web applications using **Nextjs (TypeScript, Tailwind)** for frontend and **Django REST Framework** and **Node.js (Express)** for backend APIs.
 - **Cloud Infrastructure:** Deployed and managed applications on **AWS** using **Docker** containers, S3, and EC2 with auto-scaling and IAM-based access policies.
 - **CI/CD Automation:** Implemented continuous integration pipelines using **GitHub Actions** and **AWS Amplify**, enabling zero-downtime deployments.
 - **System Performance:** Optimized backend queries and caching, reducing response latency by 45% and improving system throughput under load.
 - **Collaboration & Leadership:** Led a 5-member engineering team to deliver high-traffic booking features, achieving **99.9% uptime** and 35% improvement in retention.
- **VerifSudha** Bengaluru
Full Stack Software Engineer Oct 2022 – May 2024
 - **API Development:** Developed and maintained **RESTful APIs** using **Python (FastAPI & Django REST Framework)** to serve 5K+ concurrent users.
 - **Frontend Engineering:** Built dynamic and responsive frontends with **React.js + TailwindCSS**, ensuring seamless user experiences across modules.
 - **Asynchronous Programming:** Implemented async workflows and background task processing using **Celery & Redis**, improving performance by 40%.
 - **Scalable Deployment:** Containerized applications with **Docker**, deployed via **CI/CD** pipelines, and optimized for scalability and maintainability.
 - **Cross-Functional Delivery:** Collaborated with product and design teams to launch MVPs in record time, supporting new product lines and client integrations.

PROJECTS

- **FeedbackSense (FastAPI):** Built an AI-driven feedback analysis dashboard using **FastAPI, NLTK, and NMF Topic Modeling** for instant sentiment and topic insights from CSV data — 100% local, privacy-friendly, and shareable via interactive visualizations. [GitHub](#)
- **Job Search Agent System:** Built an AI-driven job search assistant leveraging **CrewAI, LangChain, and OpenAI GPT** for resume analysis, personalized recommendations, and automated job discovery via **Adzuna API**. [GitHub](#)
- **Kaalashiva Blogs:** Built a modern blogging platform using **Next.js, React, and Firebase** with features like **SSR, SEO optimization, user authentication, comments, likes, and bookmarks**. [GitHub](#)

EDUCATION

- **Mangalore University**
Bachelor of Computer Applications; CGPA: 9.23 2019 – 2022

CERTIFICATIONS

- **AI Tools / Prompt Engineering:** Abhyuday IIT Bombay - Certified in AI-driven workflows and LLM prompt engineering best practices.
- **Data Science / Machine Learning:** Coding Ninjas — ML algorithms, Python, deep learning, statistics, preprocessing.

ACHIEVEMENTS

- **Winner — Hacking Heist (Devpost Hackathon):** Built innovative prototype with collaborative workflows; won among 500+ participants (2021).

LANGUAGES

- **English:** Full Professional
- **Kannada:** Native
- **Hindi:** Full Professional