

# SWARAJISING PATIL

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## SKILLS & CERTIFICATIONS

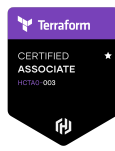
**Languages:** JavaScript, Python, TypeScript, Java

**Frameworks:** React, Node.js, Django, Next.js, Express, GraphQL, FastAPI, API Development, REST, Microservices

**Cloud & DevOps:** AWS, Docker, Kubernetes, Git, Terraform, Jenkins, GitLab CI/CD, Microsoft Azure

**Databases:** MySQL, DynamoDB, PostgreSQL, MongoDB, Redis

- Certifications:**
- [AWS Certified Solutions Architect – Associate \(SAA-C03\)](#)
  - [HashiCorp Certified: Terraform Associate \(003\)](#)
  - [Certified Kubernetes Administrator \(CKA\)](#)



## WORK EXPERIENCE

### Software Engineer

July 2024 – Present

Changing the Present | **Node.js, JavaScript, React, Redux, Express, PostgreSQL, AWS**

New York, United States

- Achieved sub-100ms latency & scaled the system to process over 120,000 daily requests by architecting RESTful APIs using Node.js, Express, PostgreSQL, advanced techniques like async workflows, caching & connection pooling
- Boosted platform scalability to handle 5x more users and improved feature delivery timelines by 30% by reengineering a monolithic UI into independently deployable microservices using React, Redux, Docker & AWS

### Software Engineer

March 2022 – Sept 2022

Promotehour | **Next.js, React, Redux, Node.js, GraphQL, PostgreSQL, Jenkins, AWS, Terraform**

Mumbai, India

- Reduced load times from 5 seconds to 2 seconds, boosting organic traffic and enhancing user experience for 20,000+ monthly active users by architecting a scalable Next.js and React web app with SEO optimizations
- Implemented state management with Redux, integrating lazy loading to streamline data flow, improve maintainability, scale to 3x users, and enable 5+ teams to work independently with zero technical debt
- Reduced bounce rates by 15% during peak traffic by cutting payload sizes by 40% (2.5MB to 1.5MB) with GraphQL, optimizing network overhead, and improving rendering speeds for interactive components

### DevOps Engineer

March 2021 – March 2022

Sigmoid | **FastAPI, Node.js, Docker, Kubernetes, Jenkins, Kafka, Redis, AWS, Terraform, PostgreSQL**

Bengaluru, India

- Scaled the core application to support additional 500,000 concurrent users by designing a microservices architecture with Docker and Kubernetes, eliminating single points of failure and reducing downtime by 10 hours per quarter
- Reduced release cycle time from 2 hours to 30 minutes by automating CI/CD pipelines with Jenkins and GitLab, enabling 120 successful monthly deployments with zero critical errors and freeing up 20 developer hours weekly
- Increased real-time data processing capacity by 500,000 events per second by integrating Kafka into backend services built with Python and Node.js, ensuring reliable, low-latency performance for enterprise customers
- Improved API response times from 250ms to 90ms and reduced database load by 50%, supporting 1 million daily active users by implementing Redis and Memcached caching strategies, leading to a 30% reduction in server costs

### Software Engineer

March 2020 – March 2021

Promotehour | **Python, Django, Node.js, OAuth, JWT, React, Git**

Mumbai, India

- Developed and deployed backend services using Django, integrating with React components, which improved system efficiency and reduced API response times by 40% for over 10,000 daily users
- Implemented OAuth for secure authentication & JWT for role-based access control, ensuring efficient/secure user sessions, streamlined user management for 1 million daily users, improving system scalability & reducing overhead
- Created Python-based automation scripts to eliminate monotonous tasks, saving 14 developer hours per week and increasing team productivity by 17%, enabling faster feature development and quicker time-to-market

## PROJECTS

**LLM-Based Document Search System** | Python, Llama-Index, Hugging Face, Pinecone, PyTorch, GenAI

- Built semantic search system with **Llama-Index**, **Hugging Face**, & **Pinecone** for real-time retrieval across documents
- Automated embedding generation and storage in Pinecone, enabling scalability for datasets up to **1GB with <2-second query times**

**Full-Stack E-Learning Platform** | Django, Next.js, React, Tailwind CSS, PostgreSQL, AWS

- Developed a full-stack e-learning platform using **Django** for the backend and **Next.js** with **React** for the front-end, enhancing user interactions and performance
- Implemented **Tailwind CSS** for responsive design, improving mobile experience and reducing styling time by 30%

## EDUCATION

**Master of Science in Computer Science**, Stevens Institute of Technology

May 2024 | Hoboken, USA

Coursework: Web Programming, Agile Software Development, Data Structures, Design Patterns

**GPA: 3.7**