NINAD NAIK

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EDUCATION

Bachelor of Engineering in Information Technology   2021 - 2025
University of Mumbai — Thadomal Shahani Engineering College, Mumbai   CGPA: **8.54 / 10**

WORK EXPERIENCE

Associate Backend Developer, *Commotion* (gocommotion.com)   July 2025 - Present

- Integrated enterprise-grade applications (Salesforce, Shopify, etc.) for the **Agentic AI** pipelines via **MCP, NestJS, REST APIs, GraphQL and gRPC**, enabling seamless **customer-seller workflows** and automated **data synchronization**.

Backend Developer Intern, *Commotion*   January 2025 - June 2025

- Developed **scalable back-end microservice** for an **enterprise integration platform** using **NestJS and GraphQL**, prioritizing high performance and maintainability along with **unit testing** using Jest, and **Module pattern**.

Full Stack Developer Intern, *Arxena Inc.* (arxena.com)   June 2024 - July 2024

- Improved efficiency of the recruitment process by enhancing the existing pipeline and developing a **GPT-powered WhatsApp chatbot** in **NestJS, WebSocket API, GraphQL and React.js**, streamlining communication with candidates.
- Optimized build process of the app running on **AWS EC2** using **AMI**, reducing costs by upto **75%** (detailed in Gist).
- Migrated core and active services between AWS accounts, **maintaining integrity** and **minimizing service disruption**.

Information Technology Intern, *Kraymera Study Abroad* (kraymera.com)   June 2023 - September 2023

- Configured **Zoho CRM system** with **automated WhatsApp Business API processes** using **Zoho Deluge scripting**, deploying **CentOS Linux server** and configuring networking devices increasing the lead conversion rate.

PROJECTS

SpeakSure, *Python, Flask, Tensorflow, React.js, MongoDB* | (GitHub)   April 2025

- Led a team in the creation of **an AI public speaking practice app**, with the focus on analyzing speech metrics—**filler words, speech pace, and confidence levels**. Presented **research paper** at ICCIS 25 based on new models and findings.
- Trained **multilayer perceptron (MLP)** and **Fuzzy Hypersphere Neural Network** models on a custom made dataset with **250** audio samples of 30 seconds each by extracting features with Wav2Vec2 and achieved **96%** relaxed testing accuracy.

Shortomega, *React.js, Next.js, Node.js, NestJS, TypeScript, Redis, Docker* | (Website, GitHub)   October 2024

- Developed a **Full Stack URL Shortening App** that generates short URLs for long URLs, with a focus on system design.
- Published a technical blog describing the methods of using **Redis as a Primary Database**.
- Implemented **Rate Limiting and Analytics** features, and **Dockerized** the application for easy deployment.

CodeIt, *React.js, Flask, Firebase, Docker, Amazon Web Services* | (GitHub)   October 2023

- Created a specialized **full-stack online coding platform** with remote code execution using Judge0 API supporting languages—**C++, Java, and Python** and instructor tools for **coding challenges**, submission oversight, and an integrated learner/instructor dashboard with **code editor** and analysis.

SKILLS

Languages: C, C++, Java, Python, JavaScript, TypeScript, Go
Frameworks: Flask, Next.js, Node.js, Express.js, NestJS
API: REST, GraphQL, gRPC

Web: HTML, CSS, Tailwind CSS, React.js
Databases: MySQL, PostgreSQL, MongoDB, Redis
Platforms & Tools: Linux, Docker, Git, GitHub, AWS

ROLES OF RESPONSIBILITY

Responsible Computing Fellow, *SimPPL* (simppl.org)   March 2024 - June 2024

App Team Member, *Developers' Club - TSEC* (LinkedIn)   March 2023 - March 2024

Core Team Member, *Google Developer Student Clubs - TSEC* (Website)   August 2022 - April 2024

ADDITIONAL INFORMATION

- Presented research paper **Evaluating Human Speech Confidence with Deep Learning Techniques** by **Ninad Naik, et al.** at **ICCIS 2025**. Accepted for publication in SCOPUS-indexed **Springer** LNNS. (Certificate)
- Completed **A Beginner's Guide to Linux Kernel Development (LFD103)** by The Linux Foundation (Certificate)   2025
- Open Source Contribution to n8n.io docs solving 2 issues on their GitHub repo (PR: #3374, #3395).   2025
- First Runner Up (CSS Battle 2022 & Javagenix 2022), 2nd Runner Up (PyExpo 2023), Top 10 (ACE Hacks 2024)
- Maintaining a **tech blog** to share experiences, learnings and results on tech.ninadnaik.me