Parthiv Menon

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Education

Northeastern University, MS Computer Science, **GPA 3.9/4.0**   Jan 2024 - Dec 2025
Boston, MA, USA
Courses: Programming Design Paradigms, Algorithms, Cloud Computing, Human Computer Interfaces, Computer Networking

Manipal Institute of Technology, B.Tech. Computer Science, **GPA 9.17/10.0**   Aug 2019 - July 2023
Manipal, India
Courses: Object Oriented Programming, Operating Systems, Compiler Design, Databases, Information Retrieval

Technical skills

Languages: JavaScript, TypeScript, Python, HTML/CSS, Bash

Frameworks: React, NextJS, Cypress, Jest, NodeJS, FastAPI

Databases: MySQL, PostgreSQL, MongoDB, Redis

Cloud and DevOps: Vercel, AWS, Docker

Additional skills: Linux, Git, Github, Postman, Figma, CI/CD

Experience

Teaching Assistant   Jan 2025 - Apr 2025
Khoury College of Computer Sciences   *Boston*
- Architected and improved server-side tests for an Express with Mongoose server, leveraging Object Oriented Programming and Jest for the Fundamentals of Software Engineering course to enhance maintainability and reduce code redundancies by 50%.
- Analyzed and reviewed code for 25 students over 4 months to enforce good programming practices for Typescript and React codebases for a full-stack MERN application with E2E Cypress tests and ESLint checks set up in Github CI/CD pipelines.

Full-stack Developer contractor   Oct 2022 - Dec 2023
Wikimedia Foundation   *Remote*
- Integrated the Transkribus API, an AI powered OCR engine, into a Symfony based web application with OAuth2.0 authentication, Twig templates, and object-oriented Javascript to add interactivity to the interface.
- Deployed the new OCR engine on 70+ Wikisource wikis by integrating it with the new API endpoint, using server-side Object Oriented User Interface (OOUI) components to capture inputs and show appropriate UI feedback, and writing PHP unit tests.
- Created a system to poll the Transkribus API at regular intervals and provide appropriate feedback to the user via a separate queue page to track each job, thus improving user satisfaction about API usage via the web interface by 25%.

Full-stack Developer Intern   Jan 2023 - June 2023
Indian Institute of Science   *Bangalore*
- Built a full-stack application with NextJS, TailwindCSS and a MongoDB database with Prisma ORM, using SuperTokens for authentication using OAuth providers like Google, GitHub and Apple and WebGL for rendering 3D models.
- Deployed the application on an in-house Linux server with Nginx to serve static images/files, pm2 as a process manager to manage NodeJS processes, and configured Let's encrypt SSL certificates to ensure security.
- Improved the UX of the periodic table search functionality by blurring of non-existent options and integrating search with real-time feedback to reduce user clicks by 50%.

Projects

Debrief - LLM powered Chrome Extension   parthiv-m/debrief
- Built a Chrome extension that leveraged OpenAI via Langchain to create a summary of particular webpage on search results page.
- The response from the FastAPI server was cached using service workers on chrome's local storage to optimize API usage costs.

Voice Typer   voicetyperbeta.onrender.com
- Built a text-to-speech web app with a Python FastAPI server that used Google's Speech-to-Text API to convert audio to text.
- The VueJS client talks to the server using Socket.IO websocket instances to stream mic data and receive transcribed results.

Cloud Native Pastebin   parthiv-m/fluff
- Deployed Lambda functions behind an AWS API Gateway to store and fetch textual pastes from DynamoDB with a 5 day TTL.
- Deployed a NextJS client stored on S3 via Cloudfront to reduce latency and improve availability for users around the world.

Digital Humanities Project at Northeastern University   bit.ly/digital-postcards
- Built a MERN stack Typescript app with ShadCN components for the Digital Humanities project at Northeastern University.
- Designed the information architecture and layered user experience to display sensitive data of postcards and tradecards.