DEEPAK SANGLE

Software Engineer | IIT Kanpur CSE

Sector States State

WORK EXPERIENCE

Software Engineer

Fiber AI (YC S23)

- Elastic Search:
- Implemented highly scalable and performant search engine to guery over 850M+ docs using Elastic Search involving complicated join and nested queries. Improved computation time from average of 60-120 seconds to mere 3-5 seconds
- Implemented appropriate storage optimisation and data sharding techniques to reduce annual AWS bill from 100K USD to only 15K USD a year for elastic clusters
- LinkedIn Web Scraping:
- Created highly resilient LinkedIn job-posts scraper, which can scrap all 13M+ jobs in 2 weeks while overcoming LinkedIn's highly difficult anti-scraping policies
- Geo-Coding:
- Created solutions to geocode 30M+ different locations to extract latitude and longitude information. Implemented rate limiters and concurrency and retry mechanism to make the cron job highly stable
- Cron jobs:
- Used Javascript's Streams and advanced Data Structures and Algorithms to improve performance of CPU intensive computations. Reduced completion time of these cron jobs from 3 weeks to 1 week

INTERNSHIPS

Software Developer Intern

EmployWise

01/2024 - 05/2024 Remote

🛱 05/2024 - Present

Remote

- Applied in-depth knowledge of Graph-based algorithms to provide hierarchical customisability to the users using **neo4j** and **DynamoDB** databases in **Spring**
- Implemented an automated system that converts human-readable compensation breakdowns into structured CTC calculations using GPT-driven models, custom parsers, and a Java-based class to provide accurate, dynamic compensation insights

Backend Developer Intern

Zaapi

a 08/2023 - 11/2023 Singapore

· Learnt and developed various back-end API endpoints and web-hooks, involving integration with external APIs of Facebook, Line, Shopee and Lazada

Software Developer Intern

Visa Inc.

苗 05/2023 - 07/2023 🛛 🝳 Bangalore, India

 Engineered highly adaptable and robust microservices to query data across 5+ relational databases and 15+ tables. Leveraged parallel threading and reactive programming techniques in Vert.x to achieve 10-fold reduction in response time

Frontend Developer Intern

Floworx

• Collaborated closely with the backend and UX/UI teams to develop 40+ UI Screens in React Native along with Redux toolkit for IOS and Android

OTHER WORKS

PowerToys

Microsoft

m 07/2023 - 08/2023

₩ 01/2024 - 05/2024

a 11/2024 - 11/2024

Applied in-depth knowledge of C#, Windows Presentation Foundation (WPF) and the .NET framework to enhance functionalities of Microsoft PowerToys suite by resolving critical issues in it's Open Source Github Repository Closed Github Issues Link

Freelancer

Fiverr

Worked as **freelancer** developing custom compilers and interpreters for various programming languages. Understood different clients requirements and maintained a 5 star rating after delivering 20+ projects on time

Async Generator Parallel

NPM Package

Architected a **npm package** that lets you start multiple **async iterables** at same time with optional **concurrency** parameter and yields results in the order of completion. Package Link

Inkedin.com/in/deepak-sangle India

EDUCATION

Bachelors of Technology, ComputerScience and EngineeringIndian Institute of Technology, Kanpurim 11/2020 - 05/2024♥ Kanpur, India	CPI 8.0 / 10.0
Higher Secondary School	
Sarosh Junior College, Aurangabad	%
	91.4 / 100

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a 03/2018 - 05/2020 Maharashtra, India

KEY ACHIEVEMENTS

Academic Achievements

Achieved All India Rank 985 in JEE Advanced 2020 and All India Rank 1672 in JEE Mains 2020.

TECHNICAL SKILLS

Languages

C, C++, Java, Javascript, Typescript, Haskell, Python

Web Development

HTML, CSS, Node.js, Express.js, React.js, React Native, Spring (Boot, Web), MongoDB, PostgreSQL, Nest.js, Elastic Search, AWS, Playwright, Prisma, Git

PROJECTS

Compiler Design

01/2023 - 05/2023

https://github.com/Deepak-Sangle/CS335A-Compilers

- Created basic Java compiler in C++, to translate Java source code to x86_64-Assembly language
- Performed lexical, syntactic and semantic analysis using Flex and bison libraries, created Abstract Syntax Tree (AST) of source code, handled storage allocation on Control Stack and created highly portable assembly language code

mIIT-Kute

a 01/2022 - 04/2022

- https://github.com/Deepak-Sangle/mIIT-Kute
- Designed, Tested, and Deployed a Social Networking Web-app which helps IITK students to communicate
- Implemented back-end server using **Node** and **Express**, setup database in MongoDB using Mongoose library, and used Nodemailer.js library for email verification

Computer Graphics

m 08/2023 - 12/2023

- https://github.com/Deepak-Sangle/Computer-Graphics
- Implemented 3D Modelling, Phong and Goroud Shading techniques, Texture Mapping, Environment reflection and planar reflection in webgl2
- Implemented various advanced techniques like Ray Tracing, Post-processing of textures, multi-pass rendering and shadow mapping

Dear Diary

a 05/2023 - 07/2023

- https://github.com/Deepak-Sangle/Dear-Diary
- · Implemented JWT-based authentication and authorization along with SHA Algorithm based Password Hashing and **RSA cryptography** algorithm to implement end-to-end encryption