DEEV SETHIYA

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**EDUCATION**

**MANIPAL INSTITUTE OF TECHNOLOGY 2019-2023**

*B. Tech in Electronics and Communication with Minor in Data Science (CGPA: 7.93) Manipal, India*

* Coursework: Data Structures, Algorithms, Computer Networking, Object Oriented Programming

**EXPERIENCE**

**UNext Learning Jan 2023-Sep 2023**

*Software Development Engineer Bengaluru, India*

* Created a proof-of-concept compiler for a programming environment, supporting over 2000+ concurrent users.
* Fulfilled the needs of over 80% of the user base by integrating 3 basic programming languages- C++, Java, and Python and creating REST APIs for compilation.
* Improved accuracy and efficiency of code evaluation by 20% by implementing test cases for the code evaluation criteria.
* Made the compiler more user-friendly by adding ChatGPT support so that users could test their code for bugs and errors with AI.
* Reduced error rate in live exams of SQL/DBMS by creating a script to cross verify whether a database and table were created for each user specified in the csv.
* Implemented critical autosave feature to prevent loss of user’s code.

**Texplora Srl Jul 2023-Present**

*Python Developer Remote*

* Found out the most trending words in medical prescriptions by creating a script to find all the unique words present and their frequencies.
* Enhanced medical prescription accuracy by over 90% through an error resolution algorithm which replaced a misspelled medical term with the most frequently occurring related word.
* Reduced preprocessing time by over 20% by automating extraction of financial data from 1000+ XML files.
* Found out a way to extract matching orders between several csv files by creating a matching algorithm.
* Developed a Tkinter application that took file path inputs and generated detailed statistics for matched orders.

**SKILLS**

**Languages**: Java, C++, Python, C#

**Web**: HTML, CSS, JavaScript, jQuery, Express.JS, Angular, React, Node.JS, TypeScript, Flask, Django, Springboot, Redis, Redux

**Mobile**: React Native, Flutter

**Database**: MongoDB, PostgreSQL, MySQL

**Testing**: NUnit, JUnit, Selenium

**OS**: UNIX, Linux (Ubuntu)

**Developer Tools**: AWS, Jenkins, Docker, Kubernetes, Git, GitHub, GitLab

**PROJECTS**

**LinkedIn Jobs Experience Extractor** | *JavaScript* | *Chrome API* | *HTML* | *CSS |* [GitHub](https://github.com/deev1207/LinkedIn-Jobs-Experience-Extractor-)

* Was facing an issue where too many entry level jobs required many years of experience to be eligible.
* Improved job application efficiency by creating a Chrome extension which extracted the required number of years of experience for each listing.
* The main problem to solve was to design a regex function that found words with “years” written in the job description.
* The complexity increased with the realization that not all job descriptions were uniform, and there were several edge cases to consider.
* The end result was an extension which scanned a LinkedIn jobs page and returned the years of experience required for all the job listings on a page in a matter of 2-3 seconds.
* The regex expression ensured that an accuracy of 90%+ was achieved on testing the extension with over 1000+ job listings across different sectors.

**Programming Environment** | *Angular* | *NodeJS* | *TypeScript* | *HTML | CSS* ***|*** [GitHub](https://github.com/deev1207/programming-environment)

* Created this project while at UNext, to understand more about how a programming environment works behind the scenes.
* Implemented the compilation process for 3 programming languages- C++, Java, and Python.
* Added useful features like code autocompletion, code evaluation criteria and AI based code correction, leading to a massive improvement in the coding experience for end user.

**Finance Logger** | *Angular* | *TypeScript* | *HTML* | *CSS |* [Web App](https://deev1207.github.io/Finances-Logger/)

* Created a finance logger to gain better understanding of Angular.
* Added features like add, edit, undo and delete entries.