Ishani Srivastava

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EDUCATION

NIT TIRUCHIRAPPALLI
B.Tech in Computer Science and Engineering
Expected August 2021
CGPA: 9.66 out of 10

DELHI PUBLIC SCHOOL, BOKARO STEEL CITY
Grad: May 2017 | Bokaro
CBSE 12 Percentage: 97.2

ST.XAVIER'S SCHOOL
Class 10: May 2015 | Bokaro
ICSE Percentage: 97.8

COURSEWORK

UNDERGRADUATE
Data Structures
Introduction to Algorithms
Computer Organization
Operating Systems
Machine Learning
Database Management Systems
Principles of Programming Languages
Data Communication and Networks
Introduction to Probability Theory
Combinatorics and Graph Theory
Principles of Operations Research

SKILLS

PROGRAMMING LANGUAGES
Python • JavaScript • Java

WEB DEVELOPMENT
Django • Flask • NodeJS • JQuery
Semantic UI • React.js • ExpressJS
HTML • CSS

TOOLS AND DATABASES
Git • MySQL • MongoDB

FAMILIAR
C • C++ • Angular.js • Android Studio

ACHIEVEMENTS

• Top 10 out of 500+ teams in SRM Hackathon, Chennai 2018
• 3rd position in Sangam, Pragyan's annual tech exhibition 2018
• Invited to the Republic Day Parade of 2018 by the Government of India as a topper in AISSCE-2017
• National 3rd in Wiz Spell Bee 2016
• Took training in fine arts for 5+ years.

EXPERIENCE

GOOGLE | STEP Intern in Google Docs Team
May 2019- July 2019 | Bangalore
- Implemented the conversion from **OOXML ECMA Microsoft Word format(DOCX)** and **Microsoft Word Binary format(DOC) to HTML** for **indexing use-cases**, using **Java** and **Guice injections**.
- **Decreased average latency** in the conversion of Microsoft Word(DOC/X) components such as Paragraphs, Tables, Sections, Hyperlinks, Headers-Footers, List, Table of Contents and Comments into HTML and **mapped stylings** such as font size and color in paragraphs, background of table cells, bullet styles of list to the generated HTML document through **test-driven development**.

IIT(ISM) DHANBAD | Winter Research Fellow
December 2018 – January 2019
- Developed a **Speech Recognition** system using **Python on Raspberry Pi with Tensorflow** under the guidance of Head of the CSE Department,Prof. Haider Banka.
- This project required exploring models like LSTMs, **Mozilla's Deep Speech Model** and the **DeepMind's WaveNet Model** to convert lengthy speech input, such as a classroom lecture, to textual lecture notes for direct student use.

DELTA FORCE | Full stack Web Developer
July 2018 – Present
- **The Official Programming Club of NIT Trichy**,which handles the online infrastructure needs of various **college activities and festivals** as well as the development and maintenance of the **college's official website**.
- Organized and taught the basics of algorithms and data structures as a part of an **introductory Algorithms Workshop for 100+ freshers**.
- Designed and built the **UI and backend of the scoreboard page** and an **admin panel for live scoreboard updation** for the website of **Aaveg 2019**(the Inter- Hostel Cultural Festival of NIT-Trichy for Freshmen) using **NodeJS, MongoDB and Javascript**.

PROJECTS

DALAL STREET | Stock Market Simulator
December 2018- March 2019 | https://github.com/delta/dalal-street-web
- Built the website for a multiplayer virtual stock market game played by **over 750 users simultaneously** , during **Pragyan** (the annual technical festival of NIT-Trichy), using **React.js, Semantic UI** and **protocol buffers through a gRPC API** to handle hundreds of concurrent requests.
- Implemented functionalities for **mortgaging and retrieving stocks** from exchange, **reconnection to server** in case of disconnect **using exponential backoff** and **reducing the overall webpack size by 50%**.

WORKGEN | TeachForIndia.org
July 2018-December 2018 | https://github.com/PaiAkshay998/WorkGen | Website Link
- Designed and implemented the **UI and backend** of a **student worksheet generator** using **Django and Semantic UI** to aid teachers around the country by automating question paper generation.
- Added functionality to generate **customized** papers, which concentrate on the **weak topics** of a particular student to help teachers in paying **better attention** to individual students .
- Created an **interactive Django Admin panel** to simplify the process of adding questions of different boards, grades, subjects,chapters and marking pattern to the database.
- Website in **production** and has **over 300+ active student users in Mumbai**.

CLOAK ROOM MANAGEMENT SYSTEM
June 2018 | https://github.com/ishanisri/catalogue
- Created a webapp using **Flask and JQuery** to improve the management of items in the hostel cloak room by **minimizing misplacement** of items and confusions that may arise due to similar items.
- **Socket connections** are used to send users notifications about their belongings.