

TANISH SEHGAL

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EDUCATION:

Master of Science in Computer Science

Northeastern University, Boston

YEAR: 2023

Bachelor of Technology in Computer Engineering, GPA: 9.1/10

University of Mumbai, India

YEAR: 2020

WORK EXPERIENCE:

Graduate Teaching Assistant at Northeastern University

Sept 2021 - Present

- Guiding students and Grading assignments for Discrete Structures course under Professor John Rachlin.

BrowserStack - Software Development Engineer

August 2020 - August 2021

- Developed customized software solutions that helped customers achieve their testing goals with Browserstack and improving their CI/CD infrastructure, test frameworks and testing coverage.
- Developed and maintained several internal use web applications using Django, Node.js, and Agile Technologies.
- Provided leadership as a Subject Matter Expert for Browserstack Enterprise, responsible for smooth flow of all the new and old feature updates.
- Acted as the pre-sale and post-sale technical product expert to support team-wide sales quota attainment.

TIAA, India - Software Developer Intern

June 2019 - August 2019

- Developed an end-to-end web app for TIAA's internal employees with aim to automate the complex financial calculations and predict best mutual funds for customers based on their holdings and decreased time spent by the team on manual calculations by approximately 80 %.
- Developed RESTful web service for bulk-uploading data using Angular, Java, Spring, Hibernate, Oracle, Docker.

KJSCE, Mumbai, India - Software Developer Intern

Dec 2018 - July 2019

- Built a Face recognition model for automatically detecting all students in a classroom and mark their attendance if their face is recognized through the wide-angle camera.
- Implemented data visualization using graphs for admins and faculty to generate and view reports along with features such as export data to PDF & Excel format, and automatic mailing.

Think Analytics India Private Limited - Machine Learning Engineer Intern

June 2018 - July 2018

- Worked on a Computer Vision project to verify handwritten signatures and on an OCR project to recognize the details on the Employee ID card and bank cheque using OpenCV and Google Vision and created an Android Application for the same.
- Adapted Tesseract OCR's code, to increase accuracy in text-recognition for screen fonts from 50 % to 95 %

Riidl, Mumbai, India - Software Developer Intern

Dec 2017 - Jan 2018

- Developed a standalone device to aid older people living alone with medical problems. Implemented Arduino with GSM- 800 to send messages to the company server to perform several tasks such as refilling the medicines, call a doctor for a check-up, emergency SOS to selected person for aid.

PROJECTS:

ProgressBoard – Project Management Tool for MVP Developers

- Developed a project management tool, targeted for the MVP Developers/ Indie Hackers using Django and React.
- Integrated features like agile point based system, modular product structure, dynamic real time sharing and collaboration.
- One of the Top 5 projects of the day on ProductHunt.

OnLrn – Online Learning Management System

- Developed a complete online learning management system for tuition classes/schools so they can continue their classes and teach students online during lockdown.
- Integrated features like video conferencing, online quiz platform, notice board, and other features like assignment submission and grading.

CropAI – A One Stop Solution for Farmers

- Won the first prize at Smart India Hackathon 2019 for this project on 3rd March 2019.
- To enable farmers to utilize the power of technology in farming by providing them the AI solutions for best crop predictions using machine learning and fuzzy logic and also helping them in other ways such as finance handling and expert chatbot.

CryptoPass - Blockchain Based Decentralized Authentication System

- Won the first prize at I_Hack Hackathon held at IIT Bombay for this project on 20th January 2019.
- Developed a new decentralized user authentication system eliminating the traditional use of a centralized username and password authentication using AI and Smart Contracts built on top of the Ethereum Blockchain Network.

SKILLS:

- Programming Languages:** Python, JavaScript, Java, C, C++, C#, Solidity.
- Database Management Systems:** Oracle, MySQL, MongoDB, SQLite.
- Web Technologies:** Django, Node.js, React, Flask, HTML, CSS.

ACHIEVEMENTS AND RECOGNITIONS:

- Technical Head at Computer Society of India (CSI) KJSCE Chapter:** Conducted various workshops, events and seminars. Developed website and mobile app for the same.
- Team Leader and Winner for Smart India Hackathon Team 2019:** Managed everything from a strong team selection to overall coordination during India's biggest hackathon.