

JAIHEEL SHAH

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EDUCATION

K. J. Somaiya College of Engineering, Vidyavihar, Mumbai, India **Oct 2020**
Bachelors of Technology in Computer Engineering **CGPA: 8.67/10**
Relevant Courses: Data Structures, Analysis of Algorithms, Artificial Intelligence, Data Warehousing, Neural Network and Fuzzy Logic, Theory of Computer Science, Discrete Structure and Graph Theory, etc.

PROFESSIONAL EXPERIENCE

Reliance JIO, Mumbai, India *Deputy Manager in 5G Tech R&D* **Jul 2020 – Present**

- Working on SIB Project for 5G architecture and improving QoS – as a part of IMS Core team.
- Developing registration procedure & user authentication system (S-CSCF).

KJSCE, Mumbai, India *Inhouse Intern – Web Developer* **Jul 2018 - Jun 2019**

- Developed KJSCE Internship Portal incorporating four sections, namely 'Admin', 'Department Admin', 'Faculty', and 'students'. Implemented functionalities for faculties to float internships, for students to apply, and to get shortlisted based on their resumes. Designed and Implemented database schema.
- Implemented data visualization using graphs for admins and faculty to generate and view reports along with handy features such as export data to PDF & Excel format, and automatic mailing.
- Automated the process of 'Internship Cell', and is in use at the institute level.

Riidl, Mumbai, India *Intern - IoT Developer* **Dec 2017 - Jan 2018**

- Developed a standalone device to aid older people living alone and having 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 checkup, emergency SOS to selected person for aid.
- Received a letter of appreciation for this task.

Swaglok, Assam, India *Intern - Web Developer* **Jun 2018 - Jul 2018**

- Reduced website loading time by implementing various methods such as applying AJAX, trimming down JS, optimizing cache, and enhancing the user interface.
- Contributed to SEO and other related tasks and completed them in the given time frame.

APS Powers System Pvt. Ltd, India *Intern Developer – Programming* **Jun 2017 - Jul 2017**

- Developed logic for various ABB Drives in Code-sys to control motors.
- Designed panels using AutoCAD and analyzed wiring of the panel after assembling.

PAPER PUBLICATIONS

- Text-it-Loud!:** Real-time Captioning and Transcribing App for Inclusive Teaching-Learning of Hearing impaired.
 - Research Paper got accepted for inclusion in T4E IEEE Conference, 2019 and IEEE Xplore.
- Trumer:** Rumor Detection on Twitter using Machine Learning and NLP Techniques
 - Research Paper got accepted for inclusion in ICIDCA Conference, 2020 and Springer
- SlipSwap:** Reduce the slippage that is incurred during the swap of tokens using Algorithmic analysis
 - Research Paper got accepted in IBSSC: IEEE Bombay Section Signature Conference, 2020.
- Chat-it-Loud!:** Real-time Transcribing app for communication of Hearing Impaired (This paper is extension of Text-it-Loud!)
 - Research Paper is under review at 5th International ICTCS 2020 Conference.
- COVID-19 spread prediction for worst affected state of india.**
 - Research Paper got accepted in iaes Computer Science and Information Technologies journal.

ACADEMIC PROJECTS

Trumer

- A research project to determine the probability of tweet being a rumor using Machine Learning, Neural Networks and Natural Language Processing.
- Devised a new algorithm to fetch related tweets using Hashtags. Used ULMFiT model for stance detection of related tweets. Trained this model on Sentiment 140 dataset + self-created dataset of 1980 entries.
- Trained final Neural Network models based on 8 collected parameters such as tense of tweet, stance detection, retweet count, etc. Trained this model on self-created dataset of 4670 entries.
- We achieved an overall accuracy of 77.99% and recall of 89.88%.

Tab-Overflow

- Developed chrome extension, “TabOverflow” to manage, access, and share tabs from any computer.
- Sorting of tabs based on the content of the webpage in a single click. Used Beautiful Soup for scraping. Implemented clustering by training our model on our self-created dataset.
- Strong encryption such that user data is not viewable even if a person has access to database.
- This app is currently launched for public use and can be found on chrome store.

Colorit

- Developed a program called ‘Colorit’ to convert grayscale images into a colorful image using Deep Learning and designed an artistic Graphical User Interface (GUI) for the same.
- Applied Convolutional Neural Networks (CNN) with encoder-decoder architecture.
- Created our own dataset of around 700 images for training.

Text-it-Loud!

- Designed a real-time speech recognition system for hearing impaired people as well as for conducting remote presentations and meetings. Implemented real-time Captioning and Transcribing App for Inclusive Teaching-Learning.
- It can be used in the background as a service. We have used Firebase and Google’s offline speech-to-text.

SlipSwap

- Developed an algorithm to minimize slippage while trading ERC20 tokens. We won Kyber network bounty of 150 USD at ‘EthIndia 2.0’ in Bangalore in August, 2019.
- Technologies Used: Kyber, Nodejs, Cryptocurrency, Algorithm.

Event Application Screening

- Developed an online platform where recruiters get sorted list of candidates from most suitable to least suitable candidate for job based on requirements and CV of students, using Javascript and PHP.
- Algorithm developed sort the resumes dynamically from most fit to least fit candidate for the job based on the input parameters.

ONLINE COURSES

- Machine Learning by Stanford University on Coursera | Grade – 95.7%
- Deep Learning Specialization by deeplearning.ai on Coursera | Grade – 97.46%
- TensorFlow in Practice Specialization by deeplearning.ai on Coursera | Grade – 95.15%

SOFTWARE SKILLS

- Programming Languages: - Python, C, C++, Java, MySQL, Prolog, Dart, LISP
- Web Technologies: - PHP, HTML, CSS, Bootstrap, JavaScript, Node, Ajax, Flask
- Tools and Software: - Android Studio, Flutter, MATLAB, Adobe XD, Inkscape, Github, QGIS
- Hardware: - Arduino, Raspberry Pi

ACHIEVEMENTS

- Won consolation Prize in “Junior Maths Olympiad” in 2012.
- Aced “Dr. Homi Bhabha Bal Vaidnyanik Competition” in 2012-2013.
- Aced “National Science Olympiad” in 2006 and “Science Foundation Examination” in 2010.
- Aced “State Scholarship Examination” in 2010 securing state scholarship.
- I ranked 217th in the “International Science Olympiad” in 2009.
- Secured 3rd place at “National Karate Championship” in 2011 and 2nd place at “Maharashtra State Karate Championship” in 2009.
- Consistently aced in “Maharashtra Dnyanpeeth” for 7 years with an average score of 88/100 and scored 90+/100 for 5 out of 7 years.

EXTRACURRICULAR ACTIVITIES

- Appointed as the Technical Team head at KJSCE Outreach, 2017-19. Worked to spread awareness about cyber-security via seminars at various schools, offices, and rural areas.
- Volunteered for the M.A.D Foundation, an initiative to beautify the railway stations of Mumbai (36 stations) by painting posters, 2016.
- Active member of Art Team of College – INSIGNIA in 2016-17
- Playing Karate since 2004 and have achieved Blackbelt in karate. Have won many competitions in karate.
- Ranked 2nd in ACM ICPC – 2019 online round at Institute level.
- Our band won annual Inter-departmental Music contest in 2019 - I played Guitar.