JAINEEL SHAH

(646)-727-5749 janshah@cs.stonybrook.edu jaineel97 ye11ow-flash.github.io

EDUCATION

Stony Brook University, New York, USA **Aug 2021 – Dec 2022**
MS in Computer Science *CGPA: 3.58/4*
Algorithms, Visualization, Operating Systems, Data Science Fundamentals, Logic in Computer Science

K. J. Somaiya College of Engineering (KJSCE), India **Aug 2016 – Oct 2020**
B.Tech in Computer Engineering *CGPA: 8.69/10*
Data Structures, Algorithms, AI, Data Warehousing, Neural Network & Fuzzy Logic, Discrete Structure & Graph Theory, etc.

SKILLS

Languages & Frameworks: Python, GO, C, JS, HTML, CSS, PHP, Nodejs, SQL, MySQL, Shell, C++, Terraform, Bootstrap, Flask
Tools & Softskills: Docker, Distributed Git Workflow, Postman, Linux, Xampp, presentation, software lifecycle, design process

PROFESSIONAL EXPERIENCE

AMD Pensando, California, USA | *Software Engineer Intern* **May 2022 - August 2022**
- Developed a Terraform Provider for Pensando's cloud controller software using swagger based openAPI. Worked on code generation for REST objects in order to manage most of the backend via openAPI in GO. Wrote multiple example code snippets for provider which can be used as a demo for users.
- Designed & analyzed trade-offs between multiple mechanisms for IP overlapping checks in security policies in their distributed firewall which improved performance by 300%

Nano Labs, NewYork, USA | *Algo team* **March 2022 - May 2022**
- Developing algorithm for trading Bitcoin using Black Scholes based models. Implemented various OLS and deep-learning based models for BTC asset pricing. Included special controls for hedging, bid-ask spread, open interest and volume thresholds.

Reliance JIO, India | *Deputy Manager in 5G R&D* **July 2020 - May 2021**
- Saved 4 man hours per team per day on every test iteration by building a JavaScript application for identifying packet drop rates, server down-time, node failure detection and many other 5G infrastructure related issues.
- Built shell scripts to extract, filter analyze extensive execution logs for identifying defect.

KJSCE, India | *Intern – Full Stack Developer* **July 2018 - June 2019**
- Built a full stack backend using PHP which reduced workload of internship cell by 70% as this centralized whole internship management for KJSCE. Defined, Designed and Implemented the work flow right from recruitment to tracking progress to giving feedback on the experience. Used MySQL to define the schema, and provided an interactive dashboard from analyzing live data to generating reports.

PAPER PUBLICATIONS

Trumer | *Rumor Detection on Twitter using ML & NLP techniques* | Python, Selenium, Google Cloud Console, ML, NLP | **Springer**
- A research project to determine the probability of tweet being a rumor using NLP and Neural Networks.
- 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. Achieved an overall accuracy of 77.99% and recall of 89.88%.

SlipSwap | *Minimize Slippage in Crypto Exchange* | Algorithm, Crypto, Nodejs, Kyber | **IEEE Xplore**
- Developed an algorithm to solve an impromptu problem statement to minimize slippage while trading ERC20 tokens presented by Kyber Networks. We won Kyber network bounty of 150 USD at 'EthIndia 2.0' hackathon in Bangalore in August 2019.

Text-It-Loud! | *Real time auto-captioning & transcribing for hearing impaired* | Android, Speech-to-text, Firebase | **IEEE Xplore**
- Real-time speech-to-text conversion for any members in a created group. Each member can join from anywhere in the world. App can run in the background and can continue displaying text as toast messages. Have saved transcripts which can be accessed anytime. Presented this application in local school for students with disability and got a very positive response.

OTHER ACADEMIC PROJECTS

Tab-Overflow | *Tab management with ease* | Scraping, Neural-Network, Encryption, JavaScript, Chrome Extension
- A Chrome extension to manage, access and share tabs from any computer. Sorting of tabs based on the content of the webpage in one click using ML. Trained model on our self-created dataset. Used Beautiful Soup for scraping.
- Implemented strong encryption to maintain utmost user privacy. Data is not viewable even if a person has access to database. This app is currently available on chrome-store.

Recruit-me! | *Finding top candidate for a JOB using ML* | OCR, Decision Tree, scraping, PHP, Javascript
- Online platform where recruiters get ranked list of candidates from most suitable to least suitable candidate for job based on requirements and CV of students, using Machine Learning and scraping.
- Algorithm developed sort the resumes dynamically from most fit to least fit candidate for the job based on the input parameters.

Analyze Trends in Hotel Bookings | *Interactive dashboard using D3js* | Flask, D3js, JavaScript
- Designed and implemented interactive Dashboard using D3js to visualize and analyse trends on Hotel Booking Data. I plotted 8 graphs namely Choropleth GeoMap, PCP, HeatMap, Time Series Area Chart, etc. which are interlinked and interactive.

OTHER RECOGNITIONS

- MLH Fellow, Fall '22.
- Technical Team head at KJSCE Outreach, 2017-19. Worked to spread awareness about cyber-security via seminars at various schools, offices, and rural areas. Developed website and app for the same.
- Volunteered for the M.A.D Foundation; an initiative to beautify the railway stations of Mumbai (36 stations) by paintings, 2016.
- Ranked 2nd in ACM ICPC – 2019 online round at Institute level.
- TA at Stony Brook University for courses IAE-101 and CSE-312 from August 2021 to May 2022

*Recommendations from industry leaders available upto request