ANTRIKSH GANJOO

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EDUCATION

University of Califonia, Irvine | MS Computer Science (Network Systems) **Expected (June 2024)**
Design and Analysis of Algorithms, Computer and Communications Network, Intro to Artificial Intelligence

National Institute of Technology, Surat | B-Tech Electronics and Communications Engineering **8.41/10 | 2017 – 2021**
Embedded Systems, Computer Networks, Information Security, Object Oriented Design and Analysis, Mobile Computing, Digital Signal Processing, Fundamentals of Computer Programming

TECHNICAL SKILLS

Languages & Frameworks: *Java, C++, Python, JavaScript, C, SQL, React JS, Express JS, Node JS, Pygame*
Tools: Amazon AWS, *Google Firebase, MATLAB, SQL Developer, Cisco Packet Tracer, Google Collab, Arduino IDE, Jupyter Notebook, Microsoft Office Suite, Visual Studio Code, Postman, Git-Lab, GitHub, Vercel*
Web Design: *HTML5, CSS3, Bootstrap, Redux, REST, XML, JSON*

PROFESSIONAL EXPERIENCE

5G Systems Engineer: ***May 2021 – July 2022***
● Worked with the Mobility team and assisted them in drafting and reviewing the test plan document. **Jio Platforms**
● Wrote python and bash scripts to automate the testing process and reduced the overall (5G board) testing time by 50%
● Worked with the Hardware design team and assisted them in debugging the boards and identifying failures in components.

Network Engineer Intern: ***Dec 2019 - Jan 2020***
● *Worked on Cisco Packet Tracer, configuring various types of switches and routers.* ***Commtel Networks***
● *Learned various internet protocols and IP sub-netting. Simulated various routing protocols on Cisco Packet Tracer.*
● *Learned about fiber optics and RF/microwave communication and video surveillance system CCTV.*

Project Intern-(IoT): ***May 2019 - July 2019***
● *Built a "Smart Notice Board" using Raspberry-Pi 3 model B+ and TFT display under Prof. P.J.Engineer.* ***NIT, Surat***
● *It can be accessed remotely using an Android app, Firebase was used as (Backend-as-a-service) and Firestore as database.*
● *Used the Tkinter library in Python to build the GUI.*

PROJECTS

● ***Blog Website:*** *A small scale blogging website*
- *A micro-blogging website wherein, the user can create and delete posts.*
- *Created the user login functionality using the Google firebase authentication feature and used firestore as the (No-SQL) database.*
- *Tech Stack: ReactJS, NodeJS, Google Firebase, CSS3.*

● ***Note-Zipper:*** *Built a MERN stack web application for storing personal notes.*
- *Added various functionalities like Delete, Create, Update.*
- *Used MongoDB as (No-SQL) Database and integrated it with NodeJS using the mongoose library.*
- *Created the user authentication functionality using the jsonwebtokens.*
- *Tech Stack: ReactJS, Bootstrap, MongoDB, ExpressJS, NodeJS*

● ***Disney-Plus Clone:*** *Front-End Clone of the Disney Plus streaming platform.*
- *Designed the front end of the Disney Plus website by adding components like automated side scroll, background video animation, add to watch-list and watch movie tabs and various other functionalities similar to the original website.*
- *Tech Stack: HTML5, CSS3, JavaScript*

● ***Space Shooter:*** *A basic implementation of space shooter game.*
- *Used the Pygame (cross platform python module) to implement various functionalities.*
- *Designed the Laser and Ship classes using the Object Oriented design (OOD) patterns.*
- *Developed the code for the case when collision occurs and added the feature of reduction in players' health bar.*
- *Tech Stack: Python 2.7, Pygame*

PUBLICATION

● ***Leveraging Adversarial Training for Efficient Retinal Vessel Segmentation***
- *Co Authored and proposed a training technique in which a Conditional-GAN with U-Net architecture with the Generative model and Patch-GAN architecture as the Discriminative model has been developed.*
- *Furthermore, Depth-Wise Separable Convolutions have been utilized to ameliorate the efficiency of the architecture.*
- *To allow rapid convergence of the loss function, the NADAM optimizer has been incorporated.*

CERTIFICATIONS

● *Amazon Web Services Cloud Practitioner* ***Amazon***
● *SQL Certification* **SoloLearn**
● *Introduction to Internet of Things* **Stanford Learning**
● *Robotics and Artificial Intelligence* ***Electronics India***
● *Hands-on Embedded Systems* ***Electronics India***

ACHIEVEMENTS

● *Completed the JP Morgan virtual software internship during the summer of 2020.*
● *Selected as an AI scholar in Intel® Edge AI Scholarship Foundation Course.*
● *Senior Executive at my college student chapter (Association of Computing Machinery) NIT, Surat.*
● *Class Representative of my batch, over the period of 2 years.*