Neetash S Pataria

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SKILLS

Python
Django
React.js
Java
Javascript
SQL
Linux
C/C++
MATLAB
RS-Logix 500

ACHIEVEMENTS

Won the gold medal for Table Tennis at the 2018 IGNIS tournament.

Represented my college for Table Tennis and Lawn Tennis at the 2017 and 2018 All India Inter-NIT competition respectively.

Core member of the Electrical engineering society at SVNIT.

STRENGTHS

Problem solving
Communication
Imaginative
Flexibility
Optimism

HOBBIES

Table Tennis
Lawn Tennis
Football
Formula-1

PROFILE

Avid developer with sound technical knowledge building software. I love to be creative and inquisitive. Enjoy being challenged and engaging with projects that require me to leave my comfort and skill set, as continuing to learn new technologies are important to me.

Currently on Tier-4(General student) visa, will obtain Tier-2(Skilled labour) by October/November, i.e will NOT require sponsorship from the organisation to legally work in the UK.

EDUCATION

October 2020 - Present
Cardiff University, Cardiff, U.K - MSc
Master of Science in **Computing** (Distinction)

June 2016 - July 2020
Sardar Vallabhbhai National Institute of Technology, Surat, India - B.Tech
Bachelor of Technology in **Electrical Engineering** (First Class)

WORK EXPERIENCE

August 2020 - October 2020
Indian Institute of Technology, Bombay, India - Software project intern
- Drafted structured software and project management documentation
- Frequent demonstration of the application and communication with stakeholders for improvements in the project, and troubleshooting/testing for OS specific problems.

Technologies used: Linux, MS Excel, C++

May 2019 - June 2019
Hindustan Petroleum Corporation Ltd, Mumbai, India - Summer intern
- Pre-commissioning of a substation(MSS-12) i.e, to check for the functional operability of elements within a system.
- Analyse and test all machines/equipment with different load levels and finally provide an optimized solution

Technologies used: MATLAB

December 2019 -December 2019
SWA automation, Surat, India - Internship trainee
- Develop ladder logic software for home and industrial automation.
- Designing PLCs and Electromagnetic relays, as per customer requirements.

Technologies used: RS-Logix 500, MATLAB

PROJECTS

Masters Projects:
June 2021 - Present
Dissertation - Independent contractor(Data analytics/simulation)
- Optimal control of SEIR epidemic model. To investigate optimal control techniques and the effectiveness of the resulting policies which are testing strategies, control of people movement, vaccination etc.

Technologies used: Python(Numpy, Pandas, Matplotlib)

December 2020 - January 2021

Blogging website - Full stack developer(Web development)

- Developed a personal blogging website, which allows visitors to view, like and comment on a particular post. Admin can add, delete and edit the contents. The website is deployed on Openshift.

Technologies used: Python-Flask, Javascript, HTML, CSS, MYSQL, Openshift

March 2021 - May 2021

AutomAATic - Full stack developer(Software engineering, web development)

- Developed an automated assessment tool for any university to create/add assessments, create/add questions and view statistical data for students and cohort of students.

Technologies used: Python-Flask, Javascript, HTML, CSS, MySQL

Bachelors Projects:

May 2021 - June 2021

MPPT for Solar panels - Independent contractor(Engineering)

- Maximum power point tracking for solar panels explores the point upto which we can extract the maximum amount of solar power using different electrical engineering techniques, analytics and simulations.

Technologies used: MATLAB(simulink)

Personal Projects:

Feb 2021 - March 2021

Financial Simulations - Independent contractor(Data analytics)

- Using python libraries to predict gross profit, forecast stock prices with the help of Monte Carlo simulations. Price options using the Black Scholes formula and compare various securities.

Technologies used: Python(Numpy, Pandas, Matplotlib)

May 2021 - Present

Social Media website - Independent contractor(Web development)

- Developed and deployed a microblogging website similar to Twitter, where users can post, repost and reply to microblogs and images.

Technologies used: Python(Django), react.js, SQLite, AWS

May 2021 - June 2021

eKart - Independent contractor(Web development)

- Developed and designed a fully functional eCommerce website with user authentication, search, payment integration and a complete Admin panel. The website is deployed on Heroku.

Technologies used: Python(Django), HTML, CSS, react.js, PostgreSQL(AWS), Redux, Heroku

May 2021 - Present

Electricity management system - Independent contractor(Software development)

- Developed desktop based application to digitize the entire electricity billing system, this digitisation makes the overall billing system easy, accessible and effective for users.

Technologies used: Java, Java-swings, MySQL

May 2021 - July 2021

Messaging service - Independent contractor(Software development)

- Developed a desktop based client and server messaging application using socket programming techniques in Java.

Technologies used: Java networking, Java-swings