Rahul RELEKAR

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Energetic self-motivated person with commitment towards corporate work culture. Pragmatic individual seeking for knowledgeable and insightful opportunities. Looking for growing my curiosity at a fast-paced corporate institution.

Education

BACHELOR OF ENGINEERING | CITY UNIVERSITY OF HONG KONG | 2017 - 2021
· **Major: Computer and Data Engineering**
· Related coursework: Object Oriented Programming, Microcomputer Systems, Foundations of Data Engineering, Data Structures and Algorithms, Art and Science of Data, Cybersecurity, Database Systems, Computer Architecture, Data Learning (Machine Learning), Operating System, Data Management Techniques, Data Modelling Techniques, Data Communication and Networks, Java programming and Application, Design and Analysis of Algorithms

Work Experience

FULL-STACK DEVELOPER | FRIDAY | 2020-SEP TO PRESENT
- Setup the environment for MongoDB and Django integration (using Djongo)
- Migrate from the Content Management systems to functional API
- Design the frontend UI/UX for the website using React

VIRTUAL REALITY DEVELOPER | CITYU - ARCHITECTURE AND CIVIL ENGINEERING | 2020-JUL TO PRESENT
- Setup the equipment with Omni Connect Software Development Kit on Unity as well as Viewport with Omni station
- Simulated with the docking station for fundamental movements by altering the C# scripts
- Imported and worked with NASA packages as well as HKgov 3Dtiles

WEBSITE DEVELOPER | CITYU – NEUROSCIENCE DEPARTMENT | 2020-AUG TO 2020-AUG
- Designed the wireframe for the official website of the Neuroscience Department
- Managed and developed the various contents of the Department
- Software implemented: Drupal

TECHNOLOGY RISK INTERN | ERNST&YOUNG ASIA PACIFIC(EY) | 2019-SEP TO 2020-APR
- Designed and developed prototypes and tools for risk management, business analytics and data analytics synchronized with data visualization
- Assist in data quality and data management initiatives
- Client-side project interaction as well as server setup

SOFTWARE DEVELOPER | CITYU ROBOCON | 2017-SEP TO PRESENT
- Programmed the Manual Robot to function with the main framework in C
- Implemented mbed language to program the hardware - Nucleo Board
- Designed the code for Line Trackers

SOFTWARE PROGRAM DEVELOPER | PRISTER | 2019-JUL TO 2019-AUG
- Designed innovative and efficient projects on a microprocessor
- Implemented Microsoft MakeCode, Wunderkind block coding and Marty robot extension on Scratch

Substantial Projects

- **Fault Cargo Analysis for Visionaries 777 Ltd. | Data Science:**
  - Massive data Cleaning/Pre-processing: Managing missing data, Encoding, Outlier detection, Data Visualization
  - Feature Selection for Regression Model and Accuracy Predictor

- **Tour of Heroes | Web Development:**
  - Optimized the code to be more User – friendly components in Angular HTML, CSS, and JavaScript/TypeScript
  - Developed a Single page authentication for the webpage with "auth0"

- **Virtual Reality Development | Architecture and Civil Engineering Department, City University of Hong Kong:**
  - Setup the simulation environment on Unity and fixed the source code in C#
  - Imported tiles for real-time simulation and immersive experience

- **Power-less Lead Detecting Microfluidic Chip | Invited by Imperial College London:**
  - Assisted in discovering a simpler and efficient method to treat lead contamination
  - Invited by Royal Academy of Engineering for a collaboration - Grand Challenges Scholars Program (GCSP)

- **Automated Teller Machine | Final Project for Secondary Education:**
  - Performed basic transaction data automation in Java
  - Developed the customer-side interaction for real-time data collection

- **Web Design | Neuroscience Department, City University of Hong Kong:**
  - Designed the structural website with the CMS Drupal
  - Updated and managed the content for the website

- **Real-Time Face Recognition:**
  - Went through different stages of Convolutional Neural Network Basics in Python
  - Formed a model to detect faces of the existent occupants

Scholarship

- CityU International Student Entrance Scholarship
- 2nd Runner Up: Department of Mechanical Engineering Logo Design Competition
- Resident Tutor for 2019-2020
- Representing City University of Hong Kong for Global Grand Challengers Program to Imperial College London

Skills

- Software Development   : Python (Django), Java, C++
- Database   : MongoDB
- Technical Computing   : MATLAB, R, SAS, SQL
- Operating Systems   : Windows, Linux
- Data Science   : Gephi, Tanagra, Weka
- Web Development/Design   : React, JavaScript, TypeScript, Angular, CSS3, HTML5, Drupal
- Hardware Integration   : VHDL – FPGA Programming, Cisco Packet communication, Assembly Language
- Computer Network   : SSH, VLANs, Router, Switches
- UI/UX Design & Graphic Design: Photoshop, Illustrator, Canva
- Vision Systems   : Open CV, MATLAB
- Virtual Reality Development   : Unity
- Version Control   : GitHub
- General Software   : Microsoft Word, Microsoft Excel, Microsoft PowerPoint, and Microsoft Access
- Agile Boards   : Jira Software, ClickUp, Trello board
- Quick-to-adapt to new/ existing programming languages

Abilities

LEADERSHIP

· HALL RESIDENCE TUTOR | 2019-2020
  - Delegating the fields of discipline, extra-curricular activities, and sports to 300+ residents

MANAGEMENT

· STUDENT INITIATED PROJECT - DIWALI NIGHT (An Indian Festival of Lights) | 2018-2019
  - In-charge of the administrative that put the event together and gained Customer Relation Management experience of 350 attendees

Related Links:

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https://github.com/rahul-relekar

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https://rahul-relekar.github.io/home/

https://wa.me/85252220073