Sonal Chandra

2108, 21/F, Shin Tsui House, Fu Shin Estate, 12 On Po Road, Tai Po, Sha Tin, Hong Kong

Contact: +852 98171537 | sonalchandra@link.cuhk.edu.hk | Portfolio

SUMMARY

- Full-stack web developer with a genuine interest in data science and quantitative analysis.
- Independent Learner with the enthusiasm to evolve with the technical landscape.

EDUCATION

August 2021 – July 2023

The Chinese University of Hong Kong Master of Philosophy in Economics

CGPA: 3.76/4

Sep 2017 – June

2021

Lingnan University, Hong Kong

Bachelor of Social Sciences (Hons) - Major in Economics

CGPA: 3.94/4

August 2019 - May

2020

Study Abroad: Davidson College, United States

Focus on Mathematics and Econometrics

CGPA: 3.925/4

AWARDS

January 2021

Postgraduate Studentship Award 2021, The Chinese University of Hong Kong

September 2020

Best Economics Student Award, Lingnan University

March 2019

President's Scholar Award 2019-20, Lingnan University

April 2017

Lingnan University Non-Local Student Scholarship

SKILLS

Web development

Full-stack web development using MongoDb, Express, React Js, Node Js (MERN

stack), PostgreSQL, HTML, CSS, and JavaScript

Data Analysis

Skilled in STATA, Python, and MATLAB

WORKING EXPERIENCE

August 2023 - Present

Junior Software Developer, LOJEL, Hong Kong

- Develop web applications using industry-leading web development practices.
- Translate application designs into front-end code utilizing HTML, SCSS, JavaScript, and PHP.
- Develop back-end pipelines to seamlessly integrate UI components with APIs and databases.
- Identify and resolve errors, troubleshoot issues, and implement regular performance optimizations.
- Migrate web infrastructure to AWS, leveraging key AWS services such as RDS, AWS S3, ECS, and CloudFront.
- Implement on-site search engine optimization (SEO) techniques.
- Contribute to overall performance enhancements across the entire website.

March 2023 - June 2023

Software Engineer, Flyfarm Systems, Hong Kong

- Developing an in-house web application from scratch that monitors farms installed worldwide
- Support the implementation of software with the Farm Operations team in Brisbane
- Utilising React Js and Material UI for front-end development and Redux for global state management
- Utilising Node Js and MongoDb for backend development and database management, respectively

October 2022 - February 2023

Full-Stack Web Developer, Blockpulse Limited, Hong Kong

- Design, develop, and maintain the BlockPulse web application
- Collaborating with UI and UX designers
- Contributing to the testing and deployment of features
- Writing a Python script to scrape data from platforms like Medium and mirror.xyz
- Utilising React Js and Redux for front-end development and global state management, respectively
- Utilising Node Js API and PostgreSQL for backend development and database management, respectively
- Building infrastructure using Linux command line to deploy the Node Js backend and PostgreSQL database on Linode VPS and Next Js frontend on Vercel

January 2021 - July 2021

Web Developer, Teaching and Learning Centre, Lingnan University

- Successfully developed an application using Python's Flask framework that
 helps the coordinator manage all the administrative tasks related to the Peer
 Learning Facilitation program, such as user authentication, generating
 schedules, claim form collection and verification, sending reminder emails, and
 generating sessions' information files (Demo: Part 1 and Part 2)
- Utilised Flask and Bootstrap for front-end development and Python for backend development
- Other technologies and skills used were SQLite3 and function-oriented programming in Python
- The application slashed the number of manual hours needed to perform the aforementioned tasks by a tenth

WEB DEVELOPMENT PROJECTS

May 2022 - Present

MERN-stack Social Network (Please Sign Up and Explore)

- Developed an exciting social media app that allows users to not only create, like, comment, share, and edit multimedia posts but also follow and unfollow other users.
- The program also includes real-time chat and notification features developed using Socket Io.
- The user authentication system is built using JSON web tokens. Moreover, the Redux store and browser localStorage allow for state persistence.
- The app has a responsive and intuitive design featuring advanced gesturebased animations developed using React Spinner and React Flip Move.
- Utilised Node Js API, MongoDB, React Js, and Redux for backend infrastructure, real-time database hosting, frontend development, and global state management, respectively.

March 2020 - August 2020

March 2020 - August Media Watch (Please Explore)

- Topic modelling and visualisation of YouTube video titles of 46 major news shows from India between August 2016 and June 2020.
- Skills developed: web scraping, data cleaning, data visualisation, machine learning, **NLP**, and web designing using **Python**.

EXTRA-CURRICULAR ACTIVITIES

May 2019 -July 2019

Participant, Joint Humanitarian Entrepreneurship Summer Academy

- Field visits to Almaty, Kazakhstan and Bukomansimbi, Uganda, for problem identification and empathising with the local communities
- Researching energy and water crises in rural Almaty and Bukomansimbi, respectively