HEMAN SEEGOLAM

CONTACT INFORMATION

+447429564406

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SKILLS

Python / Java / JavaScript
HTML / XML / CSS
React
SQL / Splunk SPL
Github / Bitbucket / Jenkins
JIRA / Confluence

INTERESTS

Travelling
Arts, Music & Entertainment
Sports

EDUCATION

SECONDARY EDUCATION –

SOUTHEND HIGH GRAMMAR SCHOOL FOR BOYS.
GCSES (2014 - 2019):
Maths 9; Further Maths A*;
Combined Sciences 99; French 9;
English Literature 9;
English Language 8;
Computer Science 8; Electronics 7;
Art 6; Religious Studies 7

A-LEVELS (2019 - 2021):
Maths A*; Computer Science A*;
French A; Economics B;
Further Maths AS A

UNIVERSITY (2021 - 2025) –

KING'S COLLEGE LONDON
BSc (Hons) Computer Science with a Year in Industry

WEBSITE

heman-s.github.io

PROFILE

Defined by a focus on continuous learning and personal growth, I am committed to expanding my technical expertise whilst delivering impactful and innovative solutions. This commitment involves data analysis, data science, web development, program development, database management and machine learning. My work experience and learning has leveraged my confidence, communication, organisation, knowledge and teamwork whilst sharpening my problem-solving and algorithmic skills allowing me to thrive in dynamic environments and create real-world results.

EXPERIENCE

BMW Group - Data Scientist Intern
(July 2023 - September 2024)
As part of my placement year for my BSc Degree, I worked as a data scientist intern with the BMW Group. As part of a global team, I collaborated with colleagues from England, Germany, South Africa, Slovakia and the US amongst others. My main responsibilities were to collect, clean, analyse and interpret complex vehicle and company telematics data.

Key Contributions:
- Designed, developed, and enhanced interactive dashboards using Splunk, XML, HTML, CSS, and JavaScript, providing stakeholders with actionable insights through statistical and graphical data analysis.
- Led and delivered agile-driven projects, ensuring smooth workflow through JIRA, and directly liaising with internal stakeholders to define business requirements and present data-driven solutions.
- Created and updated unit tests and technical documentation for dashboards and defect resolutions using Confluence, ensuring high standards of code quality and transparency.
- Deployed data solutions and automated pipelines using Bitbucket, Jenkins, and GitHub, improving deployment efficiency.
- Transformed SQL data into Splunk SPL queries to optimise data ingestion and reporting.
- Created business alerts to notify stakeholders of ongoing problems and implemented machine learning algorithms to build predictive models for identifying potential issues
- Managed, led, and trained team members as application owner, delegating tasks and mentoring new team members.

Private Tutor
(September 2022 - June 2023)
Delivered personalised Computer Science lessons to GCSE students, fostering improved academic performance and understanding of key topics such as programming, algorithms, and computational thinking.

COURSES

CyberFirst: Advanced Cyber Security
Imperial College London: Creative Thinking: Techniques and Tools for Success
University of Cambridge: Foundations of Finance
Harvard University: Exercising Leadership: Foundational Principles
Harvard University: Data Science: Machine Learning
Harvard University: CS50's Introduction to Artificial Intelligence with Python
University of Pennsylvania: AI for Business Specialization

PROJECTS

VisuaLearning Quiz Application.

Technologies: Python, Tkinter, SQL

- Developed a quiz platform that allows teachers to create, edit, and manage quizzes for students, integrating randomised questions and answers to enhance learning engagement.
- Implemented a grading and progress tracking system that visualises students' performance, providing real-time feedback to teachers and parents.
- Designed a user-friendly GUI with Tkinter, enabling easy quiz creation and student interaction.
- Utilised SQL for database management to store quiz data, student scores, and historical performance, ensuring efficient data retrieval and scalability.
- Improved assessment efficiency and provided actionable insights on student progress through data visualisation.

Food Chain Simulator

Technologies: Java, Multi-threading

- Collaborated in a team of two to build a food chain simulator, simulating species behaviour and interactions in a dynamic ecosystem.
- Implemented multi-threading to allow simultaneous simulation of different species' behaviorus, ensuring realistic interaction between predators and prey.
- Designed a flexible framework allowing the addition of new species and behaviours, providing insights into ecological balance and predator-prey dynamics.
- Focused on optimising performance and ensuring smooth, concurrent execution of simulation tasks.

Property Viewer Application

Technologies: Java, JavaFX

- Developed an interactive property viewing platform for the London housing market, featuring a dynamic map interface with borough-specific property listings based on user-selected price ranges.
- Integrated a range slider for users to filter properties by price, with a default range option for quick exploration.
- Implemented a statistics panel that provides real-time analysis of properties within the selected range, offering key insights such as average price, number of listings, and borough-specific trends.
- Created a favourites panel that allows users to bookmark and manage preferred properties for future reference.
- Enhanced the user experience with advanced features, including a menu bar, price calculator, and a scroll panel for property selection.
- Integrated OpenStreetMaps to visually display the locations of available properties and Weather API to show current weather conditions for each property location.
- Designed and implemented dark mode/light mode functionality to improve user accessibility and interface flexibility.
- Included a search bar for filtering properties by specific criteria (e.g., number of bedrooms, postcode), streamlining the property discovery process.