Lawrence Lee

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Experience

Coding Instructor
Graphite Academy
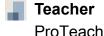May 2021 - Present (1 year 11 months)
- Provide group coding lessons to students of all levels, ages, and backgrounds in various programming languages and technologies, such as Scratch, Tello Drone, CoSpaces, Microbit, Thunkable, mBot, Matatalab and Lego EV3.

- Encourage students collaboration and foster a hands-on, project-based learning environment to enhance students engagement and learning outcomes.

- Customize lessons based on clients' interests, goals, and learning styles, and provide ongoing feedback and support to maximize their progress and achievement.

- Utilize a range of online and offline resources and tools, such as coding challenges, coding projects, and coding games, to enhance learning and engagement.

- Helped students achieve their coding goals, such as building websites, creating mobile apps, and pursuing coding careers, by providing customized and effective instruction.

Mathematics Teacher
Seriously Addictive Mathematics
Apr 2022 - May 2023 (1 year 2 months)
- Develop and implement engaging lesson plans for primary and secondary mathematic courses, including algebra, geometry and linear regression.

- Use a variety of teaching techniques and resources to accommodate different learning styles and abilities.

- Create a positive classroom environment that promotes critical thinking, problem-solving, and academic excellence.

- Utilize formative and summative assessments to monitor student progress and adjust instruction as needed.

- Collaborate with colleagues to align curriculum and share best practices for teaching mathematics.

Teacher
ProTeach

Aug 2020 - Jan 2021 (6 months)
- Mentor 20 students on their homework.

- Teach 3 different subjects - English, Chinese, and Mathematics.

- Provide students with good moral concepts in daily interactions.

- Design and roll out activities to enhance students' social skills.

Education

University of Wollongong
Bachelor's Degree, Big Data & Cybersecurity
2022 - 2024
- Demonstrate an understanding of the importance of well-structured solutions and good coding style within an object-oriented programming environment, and create maintainable programs using an object-oriented programming language.

- Examine web formats and standards, and create scripts to handle input from web forms. Configure and install a web server that provides controlled access, and design simple web-based applications using mark-up languages and client-side scripting.

- Determine and compare algorithm complexity, and select and use appropriate data structures and algorithms for a variety of problems.

- Apply mathematical principles in interpreting data, formulating and solving problems, and critically analyzing answers for use in both mathematics and computer science. Learn to construct truth tables for logical expressions, test statements for logical equivalence, and represent mathematical statements in the language of predicate logic.

- Prove the correctness of relational database designs by adapting a theory of relational database normalization. Learn to design and create stored procedures, stored functions, and database triggers in advanced SQL and PL/SQL, and apply indexing to improve the performance of relational database applications.

- Analyze risks and threats to computer systems, evaluate and manage security in computer systems, and understand models of security in operating systems and methods of providing protection.

- Design and implement solutions to problems using C++ programming language and learn about procedural-based programming, object-oriented programming with encapsulation, inheritance, and polymorphism.

- Understand the concept of Big Data, design and implement data pre-processing techniques, understand principles of pattern discovery, associations and correlation, classification and clustering techniques for Big Data, stream-oriented and identify suitable implementation methods for Big Data applications.

Training Vision Institute

Diploma of Education, Digital Marketing

2020 - 2021

- Evaluate the effectiveness and impact of data from different marketing activities of the business, providing insights by evaluating the customer response and sales performance.

- Design a marketing campaign to promote different products for different age range, creating a target profile to understand the decision-making process of our target audience. Creating target personas, user journey map, and proposing customer engagement initiatives based on the new changing customer buying patterns and influence.

- Identify customer search trends and set the bid amount of keywords on Google Ads. Identifying tools to manage PPC campaigns and identifying metrics or KPIs to measure campaign performance.

- Evaluate advantages and disadvantages of the use of social media for different organizations. Determine which social media platform to use to target different target audience.

- Develope different content pieces and to provide details of how are these related to achieving our marketing objectives. Proposing content formats and digital platforms in the proposed content piece I intend to develop.

- Propose best practices a website must be implemented in order to get new pages discovered and indexed by Google faster. Identifying steps to take to improve the SEO worthiness of a website.

- Analyze budget considerations with the consideration of different data analytics tool.

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Diploma of Education, Information Technology

2021 - 2022

- Design a Python AI program that is capable of categorizing customers into different groups by using the information that they key in, including a flowchart and user guide with clear steps and flow indicated.

- Perform a suitable hypothesis test using different statistic formulas and transform data into a tabular form in order to make useful predictions.

- Recognize and mitigate network and server issues, and propose a network topology that suits the business requirements.

- Develop different functions in Android applications using Android Studio that is capable of handling possible errors which will occur during the program execution.

- Design a new database by using ER diagram as the basic structure and SQL script to set up/update necessary information. Recognize the types of data redundancy and create the most efficient set of data based on the company goal.

- Propose the idea for an interactive technology/product/software/application for different industries and identify different target users/stakeholders to come up with better decisions for different requirements.

Bliss and Wisdom Senior High School

Diploma of Education

2015 - 2018

Leadership experience:

• Coordinated lesson prep, daily logistics, and organizational efforts as class monitor

• Selected as Teaching Assistant for Mathematics, English, and Chinese Calligraphy

• Initiated and led peer-tutoring sessions; clarified learning concepts

Co-curricular activities:

• Awarded first prize at the national competition for Chinese calligraphy for 2 consecutive years

• Directed Media and Technology Club as Student President

Community involvement:

• Awarded Certificate of Excellence for 500 volunteer hours

• Experienced as campus and community leader through service involvement: town clean-up events volunteered at lantern festival organized by the Taiwanese government, local fund-raising

• Participated in home visits to care for residents at nursing home

Licenses & Certifications

DMI Certified Digital Marketing Professional - Digital Marketing Institute
.SG-TVI89258

Skills

Chatbot Development • Java • Python (Programming Language) • SQL • Machine Learning •
Information Technology • Mathematics • Literature • Music • Bilingualism