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# LAYTH ALHAKIM

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London, SW1V 4EQ ♦ +44 7414 785918 ♦ Laythi@outlook.com

**LinkedIn:** [www.linkedin.com/in/layth-alhakim-656870200](https://www.linkedin.com/in/layth-alhakim-656870200)

**Website:** <https://layth-alhakim.netlify.app>

**GitHub:** <https://github.com/LaythBALA>

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## EDUCATION

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**Computing MSc:** Computer Science, 09/2022 - 01/2024

**Cardiff University** - Cardiff - Merit

- Dissertation: Design and Development of an Intuitive Web-Based Genome Browser and Annotation Tool for Visualizing and Analyzing Genetic Data
- Modules: Software Engineering, Computational Thinking, Fundamentals of Programming, Data Structures and Algorithms, Databases and Modelling

**Medical Genetics BSc with Hons:** Biological Sciences, 09/2018 - 07/2021

**Queen Mary University of London** - London - 2.1

- Dissertation: The distribution of uncongressed chromosomes and their effect on spindle pole movement

**A level,** 09/2016 - 07/2018

**The UCL Academy** - London

- Mathematics (A), Biology (B), Chemistry (B), AS Psychology (B)

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## PROJECTS

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ADDITIONAL INFORMATION AND PROJECT INSIGHTS AVAILABLE ON [WEBSITE](#)

- **Chromosome Distribution Research**
  - Conducted research on chromosome distribution and its impact on spindle pole movement
  - Performed data, image, and statistical analysis using MS Excel, ImageJ, and R resulting in actionable insights into cellular behavior
- **Genome Browsing and Visualization Web Application**
  - Developed, designed and modelled a genome browsing, visualization, and analysis web application using Flask, Python, MySQL, Bootstrap, and RESTful API
  - Conducted user testing and gathered requirements to ensure optimal usability and accessibility throughout the software development cycle
- **Pokédex and Who's that Pokémon? Quiz game**
  - Created an interactive Pokédex application using PokéAPI, JavaScript, HTML, and CSS and a planned expansion of an accompanying quiz game to improve overall user interaction
  - Implemented interactive features and an engaging user interface design including individual Pokémon details and stats to enhance user engagement
- **To-Do List Application**
  - Designed and implemented a responsive to-do list web application using HTML, CSS, JavaScript, and React
  - Focused on improving task management efficiency through a user-friendly interface

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## SKILLS

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- **Languages:** Python, Java, JavaScript, SQL, R, HTML & CSS, TypeScript
- **Tools:** Git, Visual Studio, MS Excel, Flask, React, DB Browser, Lucidchart, Figma, JIRA, Agile
- **Non-technical:** Software prototyping, project design, communication, adaptability, teamwork

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## LANGUAGES

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**English:** Native

**Arabic:** Fluent