

Ijtihed Kilani

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EDUCATION

Aalto University

Espoo, Finland

Major: Computational Engineering; Minors: Computer Science (Masters), ML & DS & AI

August 2024 – Present

TECHNICAL SKILLS

Languages: Python, C#, Dart, HTML, CSS, JS

Developer Tools: Visual Studio, Unity, PyCharm, Git, LaTeX

EXPERIENCE

Research Assistant

Dec 2022 – May 2024

King Abdulaziz University, Biotechnology & Computational Genomics

Jeddah, Saudi Arabia

- Led the writing of 2 publications, performed literature reviews & managed journal responses for publications
- Analyzed & visualized 1,000+ patient genetic data using Python, achieving a 95% accuracy rate in P-test interpretations
- Mentored 5 junior team members, taught them documentation & citation methods

Selected Research Scholar

Jul 2023 – Aug 2023

23rd Summer Research School in Mathematics & Informatics, Computer Science & Applied Math

- Led the writing & formatting of a published preprint (Under Dr. Stanislav Harizanov) that applied informatics concepts such as DP (Dynamic Programming), Graph Theory Approach, and Heuristic Search Approach to solve International Math Olympiad problems
- Delivered compelling presentations on the research findings to a diverse academic audience of 30+ academics, including multiple PhDs

PROJECTS

Maze Maverick | C# (.NET), Unity, PhysX 3.4

- Published a 3D recreation of "Pacman" on Steam, featured on 10+ websites & achieved over 200 wishlists with earnings around \$100
- Released an update to address play tester feedback and bug fixes
- Experienced significant data loss during development, underscoring the importance of regular backups

The Holy Quran without Net | Flutter, Dart, Google Play Dev Console, Git

- Supervised & designed the main algorithm for a Quran app, featuring realistic scrolling image generation
- Worked on frontend using Figma

Personal Portfolio | HTML, JavaScript, CSS, Git

- Developed a personal portfolio website showcasing projects, resume, and contact info
- Project made available open-source on GitHub, & open for any changes

Classic Bounce | C# (.NET), Unity, PhysX 3.4

- Developed and published a modern version of the classic mobile game "Bounce" on Itch.io with updated physics and graphics.
- Collected player feedback and released multiple updates to improve user experience and fix bugs.
- Posted multiple updates and maintained a rating of 4.5+ stars on the platform after review.

Comparative Study of Complete Blood Count Between High-Altitude and Sea-Level Residents | Python, Excel

- Second author of a published study analyzing hematological differences due to altitude variations
- Led the writing, documentation, and publishing process, performed all the graphs and data analyses using Python and Excel

Single Nucleotide Polymorphisms in HIF-1A, VEGFa, & VHL Genes | Python, Excel

- Second author of a review on genetic adaptations in high-altitude residents versus sea-level residents
- Led the writing, documentation, and publishing process
- Performed all the graphs and data analyses using Python and Excel