Rawan Abdelkhalek Elkhishen

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Education

Nile University — Giza, Egypt
B.Sc. in Computer Engineering; ***CGPA: 3.86/4.00*** — *Sep 2018 – Feb 2023*

STEM Ismailia High School — Ismailia, Egypt
STEM GCSE, Mathematics Division — *Oct 2015 – Jun 2018*

Experience

Vodafone Egypt — Smart Village, Egypt
Backend Development Intern — *Aug 2022*

- Worked on a project called spin the wheel, which allows users to spin a wheel on AnaVodafone mobile application to get a gift randomly not getting the same gift two times in a row.
- Implemented a randomization module in Spring/Java to assign a random gift to the user by a normally distributed function according to a given probability in *O(logn)* time.
- Designed and Implemented an automated JUnit test for the randomization module.

Nile University — Giza, Egypt
Junior Teaching Assistant for Design and Analysis of Algorithms Undergraduates Course — *Spring 2022*

- Conducted an extracurricular weekly session for students explaining a fundamental topic in algorithms and answering their further questions.
- Set a weekly sheet of problems covering a fundamental concept in algorithms for students to practice after the session.
- Mentored and assisted multiple groups of students in their course projects.

University of Applied Sciences Upper Austria, Campus Hagenberg — Hagenberg, Austria
Exchange Student — *Spring 2022*

- Attended and aced three undergrad courses including Database Design, Web Development, and Software Development using Android.
- Attended and aced three post-grad courses including Artificial Intelligence, Networks and Distributed Systems, and IT Security.
- Exposed to +10 nationalities as one of +30 out-coming students.

Projects

Safarya: Airplane Reservation Website | *GitHub*

- The website includes reservation and cancellation of the airline tickets; search and navigation of the flights. Transaction management, routing functions, and maintaining passenger records.
- Designed the UI by Figma, implemented the frontend by Html/CSS and JavaScript, and implemented the database and backend by PHP/MySQL.

Variable Latency Speculative Adder (VLSA) | *GitHub*

- An approximate adder designed that is exponentially faster than traditional adders implemented by Verilog.
- It can produce incorrect results for very few combinations of the input, to make it tolerable an error detection and an error correction unit has been implemented.

Skills

Programming: C, C++, Java, Python, HTML/CSS, JavaScript, React.js, Spring/Spring Boot, PHP, MySQL, MATLAB, Verilog, TeX.

Technologies: Git, Figma, Anaconda, Vivado, Cadence, LaTeX, Arduino, Simulink, LTspice, Xilinx ISE, AutoCAD.

Languages: Arabic (Native), English (Professional), German (Elementary).

General Skills: Time Management, Research, Planning, Problem-Solving, Debugging, Troubleshooting, Communication, Presentation.