Youssef Ben Taleb

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EDUCATION

University of Washington   Seattle, WA | June 2023
BS Computer Science and Data Science
Coursework: Data Structures and Algorithms; Machine Learning; Software Testing; Big Data Analytics

WORK EXPERIENCE

UBICOMP @ PAUL G. ALLEN SCHOOL | Research Assistant   Seattle, WA | March 2022 - Current

- Designed and prototyped a Finger-based ring sensor and implemented a RFR and CNN model to predict 5 hand gestures for the Ubicomp lab and optimized it to a 97.5% accuracy.

MICROSOFT | Microsoft Learn Student Ambassador   Remote | April 2021 - Current

- Lead college events to instruct on Programming, Machine Learning, and Microsoft Azure usage. Achieved the Alpha Milestone with 1 Trophy and 5 Badges.

ELECTRONIC ARTS | Software Engineering Virtual Experience   Remote | June 2021 – Sep 2021

- Redeveloped Vax-Man with PyGame, designed and implemented a smooth front end based on OOP. Transitioned its development on C++ to make the game 87% faster and expanded graphics with Unreal Engine.

BELLEVUE COLLEGE | Tech Club President   Bellevue, WA | May 2020 – June 2021

- Engineered a 2020 Tax Calculator GUI with swingX and deducted 61% of the process time by implementing waterfall.
- Oversaw and launched a Tic Tac Toe game with an AI algorithm and exceeded the base AI win rate by 34% by calculating Minimax.
- Coordinated an HTML Coding Interface game using Ace.js and supervised an assembled compiler.

JP MORGAN CHASE | Software Engineering Virtual Experience   Remote | June 2020 – April 2021

- Worked with equity traders on case-studies to test a new trading strategy tool.
- Streamlined workflow to allow 100% more stocks to be analyzed simultaneously by programming a real-time data visualization application.
- Modelled multiple visualization tools for JP Morgan's proprietary software (Perspective) to identify stocks thresholds.

PROJECTS

AZURE IOT PARKING SERVER ↗   JavaScript, Node.js, Azure, IOT, Blob, Cybersecurity, API
This server guides clients to an empty parking spot in a big parking area given IOT sensors connected to an Azure blob storage on Azure IOT central.

HELPEREX ↗   HTML, CSS, JavaScript, Bootstrap, API
Helperex is a health screener where you can receive Physical and Mental Health support.

UNBEATABLE TICTACTOE GAME ↗   Java, SwingX, OOP
A fully working Tic Tac Toe game on the Java console. It implements a Minimax algorithm which is undefeatable.

SKILLS

Languages: Java, JavaScript, Python, HTML/CSS, Bash, C, SQL
Frameworks: React, Bootstrap, React Native
Technology: Git, Node.js, Azure, Docker, Unity, LaTeX, MySQL
Quantitative Research: Mathematical optimization, Mathematical Modeling, Machine Learning