John Jurdak

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PROFILE

Computer Engineering Student at the Lebanese American University minoring in data analysis. Passionate about problem-solving, software development and distributed system design. Seeking to solve real-life problems through software. Currently seeking an internship in software engineering.

EDUCATION

Lebanese American University, Byblos, Lebanon 2020 - Present Bachelor of Engineering in Computer Engineering, Minor in Data Analytics,

· Board member of LAUFMIC(Lebanese American University Fouad Makhzoumi Innovation Center)

· Academic Trainer at GC LAU MUN

· Member of the Google Developer Student Club, Software Engineering Club, and IEEE AI Club.

Saint Joseph School, Cornet Chehwan, Lebanon 2005 - 2020 High School Diploma, General Sciences, Grade: 90/100 (Graduated with Honors)
Clubs: Leadership Outreach Club, Diplomacy Award NDU MUN 2017-2018, LAU MAL 2017-2018, Drama Club 2018-2019,

WORK EXPERIENCE

Entr | Sep 2023 - Present Backend Developer

· Architected and executed backend features to meet functional and non-functional requirements, resulting in a 40% faster response time

· Implementing connection to S3 bucket using Boto3 and FastAPI technologies to enable upload, download, and delete file functionalities on the cloud.

· Reducing data exporting time by 15% using FastAPI, SQLAlchemy, and CSV technologies

· Filtering through advanced ORM queries which simplified the searching process for users

Ardkon | Mar 2023 - Aug 2023 Blockchain Developer (part-time)

· Encrypting user data by leveraging hashing algorithms enhancing data privacy by 60%

· Establishing smart contracts on Hedera chain using Solidity achieving an 80% decrease in transaction cost

· Interacting with 50% more speed with the desired frontend using Hash-graph SDK scripts

Netvariant | Jan 2022 - Sep 2023 Backend & Blockchain Developer

· Developing APIs & CRMsusing Moqui and Django frameworks for large-scale ERP systems leading to a 20% improvement in data processing efficiency

· Architecting and deploying features that allow integrations between databases like PostgreSQL or MySQL and Moqui to be 40% faster

· Caching server configuring to amplify configuration speed by 40%.

· Engineering and integrating optimized EVM-compatible smart contracts for NFT collection and marketplace achieving 80% less gas cost

. Creating backend functionality using Django and Moqui frameworks and integrating them with the blockchain via web3.js improving the data retrieval process by 20%

· Testing smart contracts using QA and unit testing scrips using frameworks like Truffle and Hardhat

· Working with the marketing team to implement a marketing strategy that boosted sales by 30%

PROJECTS

ElJo Search Engine

· Implementing semantic search using various indexing techniques (TF, IDF, BM25) of semi structured data (JSON, XML)

· Developing various search techniques flat search, semantic search, fuzzy search to query data

· Using clustering techniques to group relative data points and enable more search features

· Creating a user interface and APIs to interact with the application using Flask, and HTML, CSS, and JS

Basketball Database

· Architecting and implementing a database for NBA Jr. using PostgreSQL and Django

· Automating data entry process using Pandas and Python for scripting

· Developing APIs to perform CRUD operations through a React.js

LANGUAGE

English, Arabic ,French: Written, Spoken (Advanced)

SKILLS

Software: Java, Python, Moqui, FastAPI, sqlAlchemy, Django, XML, PostgreSQL, Gradle, Solidity, Truffle, Hash-graph SDK, Ether.js, Git, Gtihub, React.js, HTML5, CSS, JavaScript, Microsoft Office

LEADERSHIP AND VOLUNTEER WORK

e-MUN 2020: Managed a team of 8 trainers to organize a global online MUN simulation conference. Acquired valuable skills such as leadership, teamwork, and communication. In addition to building custom scripts for grading and integrating them in google sheets for automatic delegate grading using JavaScript and google sheets.

LAU FMIC board member 2020 – 2021 Took part of the board of the LAU innovation center board members where we planned technical and non-technical events for LAU students and lead different student initiatives. Acquired skills such as organization, autonomy, and time management.

Scout movement 2007 – 2021 Scouts member at Saint Joseph School, acquired numerous skills such as craftsmanship, leadership, and innovation

Awards and Recognitions

Participating in Harvard Model United Nations 2020 Participated in Harvard Model United Nations in Boston.

Diplomacy Award (Model United Nations) 2019 Awarded a Diplomacy award NDU MU) which highlight critical analytical skills, public speaking, and leadership.