

Giovanni Zaarour

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EDUCATION

University of Southern California

Dec. 2024

B.S. in Computer Science and Business Administration

Los Angeles, CA

- **Relevant Coursework:** Software Engineering, Data Structures and Algorithms, Introduction to the Theory of Computation, Introduction to AI, Introduction to Distributed Systems, Microeconomics, Macroeconomics, Statistics and Data Science For Business, Advanced Business Finance

EXPERIENCE

USC Viterbi School of Engineering

Aug. 2023 – Present

Undergraduate Researcher

Los Angeles, CA

- Conducting blockchain research focusing on digital payments, smart contracts, and zero-knowledge cryptography at the Autonomous Networks Research Group (ANRG), advised by Prof. Bhaskar Krishnamachari

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Jun. 2023 – Aug. 2023

Software Engineer Intern

New York, NY

- Developed a full-stack investment portfolio management portal, with a risk analysis and performance visualization dashboard.
- Implemented backend REST API endpoints that calculate and serve a portfolio's risk and performance metrics, using custom-coded quantitative analysis formulas.
- Created ETL pipelines for external financial data into our internal data platform on AWS.

City of Glendale, CA

Mar. 2019 – Mar. 2021

Software Project Intern

Glendale, CA

- Executed multiple projects including a data report tool for all library branches and an online patron registration system.

PROJECTS

Paxos-Based Replicated State Machine (RSM)

- Built a key/value storage RSM using a custom Paxos algorithm implementation in Go. This was a project for my upper division Distributed Systems class at USC.

Passivum Smart Contract Wallet

- ERC-4337 smart contract wallet with social recovery of private keys, gasless batch transactions, and single-click DeFi staking.

Blockchain Crowdfunding App

- Implemented Moonlight, an NFT crowdfunding and co-ownership protocol on Ethereum, including features such as DAO governance, a fork of Uniswap's AMM model, NFT fractionalization, and more.

LEADERSHIP & INVOLVEMENT

Blockchain at USC

Jan. 2022 – Present

Director of Engineering

- Led engineering cohorts to winning multiple hackathons and developing blockchain projects on a semester basis.
- Taught smart contract coding classes on campus and organized the yearly blockchain hackathon.
- Led a team of students in producing data-driven research papers for our partner venture capital firms.
- Collaborated with the USC Marshall Business School to launch the inaugural VanEck Southern California Blockchain Conference for an audience of 1,500+ student developers, founders, and creatives.

USC Lebanese Student Association

Aug. 2022 – Present

President

- Host fundraisers for non-profit organizations in Lebanon providing humanitarian relief.
- Lead the Lebanese student community at USC through social events and professional resources.

SKILLS

Programming Languages : C++, Python, Java, Solidity, JavaScript, Go

Tools & Frameworks : React.js, FastAPI, Node.js, SQL (MySQL, PostgreSQL), MongoDB, Git, Docker, AWS EKS, Redis

Blockchain : EVM, Foundry, Ethers.js, web3.py, Chainlink, Dune, Etherscan, Applied Zero-Knowledge Proofs