# Hussein Alokla

(+961) 76671593 | hussein77.alokla@gmail.com | Beirut, Lebanon

## EDUCATION

**Lebanese American University | B.S. Computer Science**  Spring 2022 - Fall 2024
*Dean's Honors List and 80% Merit Scholarship*  GPA: 3.74/4.0

**Tyre Co-Ed High School | Baccalaureate in General Sciences**  Fall 2020 - Spring 2022
*Ranked 11$^{th}$ in Lebanon, President's Honor List*  94.16/100

## WORK EXPERIENCE

**Tutor | YMY**  Spring 2024 – Fall 2024
- Provide individual support to 30 computer science students, guiding them in assignments, projects, and exams.
- Focus on C language, Python, data structures, computer networks and OOP.

**Cloud Engineer Intern | Ghaim**  Summer 2024
- Led 2 cloud projects for potential clients enhancing scalability, availability, user traffic, and deployment speed
- Building tasks using IaC, CI/CD, Linux, Devops, and Docker and Kubernetes Containerization
- Expanded zones on e-commerce website with EC2 instances and applied horizontal and vertical autoscaling on AWS
- Implemented ELB to distribute incoming traffic across instances, ensuring load balancing and redundancy

**Web Developer Intern | CreoShift**  Fall 2023 – Spring 2024
- Created front ends for music and pricing websites, using React js, next js and CSS tailwind and deployed on netlify
- Developed a passenger and flight information app to enhance server-side functionality
- Utilized Laravel PHP and MySQL for backend implementation and conducted thorough testing using Postman
- Links: Project 1 | Project 2

## PROJECTS

**AI Research Assistant Website**  fall 2024
- Developed an AI website using Next js as frontend, FastAPI as backend and for AI I used Cohere API key

**News Application**  Spring 2024
- Developed an android news application, subsequently migrating it to Flutter and Firebase for enhanced functionality

**Movie Review Website**  Fall 2023
- Created a movie review website using HTML, CSS, Javascript, PHP, and followed the MVC architecture

**Energy Lifespan Estimator with ML**  Fall 2023
- Predicted solar panel electricity lifespan by building 6 models: linear regression, naïve Bayes, neural networks (achieving a precision of 0.93), logistic regression, random forest and K mean clustering

**Password Cracking Device**  Fall 2023
- Applied MPI, OpenMP, and CUDA C parallel techniques and brute force searching to test 10k passwords in 0.1 min

**Automated Road Tolling System**  Fall 2023
- Designed a system model and architecture with elicitation of functional, non-functional, and user requirements (link)

## CERTIFICATIONS

Python Classes and Inheritance (University of Michigan 2021), Programming for Everybody (University of Michigan 2020), Object-Oriented Programming (Udemy 2022), Introduction to Data Science in Python (DataCamp 2020), Introduction to SQL (DataCamp 2020), Machine Learning with Naïve Bayes (365 Data Science 2022), Git and Git Hub (365 Data Science 2022), Intermediate Python (DataCamp 2020)

## SKILLS

**Computer Languages & Tools:** Python, SQL, Docker, Kubernetes, Linux, Java, Microsoft Suite
**Softwares:** HTML/CSS, Reactjs, Nextjs, PHP, AWS, CI/CD, flutter, firebase and Code Versioning
**Language:** English and Arabic (Native)

## LEADERSHIP

**Co-Captain | Al-Mansoury Football Team**  2015 – Present
- Lead drills and organize practices to improve individual and team skills