

Omar Khatib

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EDUCATION

Northwestern University <i>Bachelor of Science in Computer Science, Minor in Economics</i>	Evanston, IL Sep. 2019 – Jun 2023
Stanford University <i>Certificate in UI/UX Design</i>	Stanford, CA 2019

EXPERIENCE

Software Developer <i>JupiterDX</i> <ul style="list-style-type: none">Built an API for Health-tech startup that generates FHIR observations for wearable devices' time-series dataDeveloped API using typescript and python. Utilized GitHub Actions to track activity and development cycleLed a team of 5 undergraduate software engineers using agile software development, raised \$500k in seed money	March 2022 – January 2023 Evanston, IL
Software Engineering Intern <i>Alarm.com</i> <ul style="list-style-type: none">Designed/implemented automated tests for new doorbell and battery powered cameras' logic/features in C#, SQLIntegrated tests into continuous automated testing framework in hopes of proactively identifying bugsDetected 3 bugs in firmware across 6 devices before production resulting in reduced bug fix costs	June 2022 – September 2022 Tysons, VA
Research assistant <i>Kellogg School of Management - Northwestern University</i> <ul style="list-style-type: none">Collected/analyzed data for a study concerning political polarization in America over the yearsConducted Data Analysis using Python, Web/Data Scraping and processing using various NLP techniquesImplemented 3 Web scrapers to get and organize data from reddit, twitter, and GovTrack and trained a word embedding model for the data obtained	August 2021 – June 2022 Evanston, IL
Web Development Intern <i>InterTech</i> <ul style="list-style-type: none">Worked as a full-stack developer on 3 Websites such as ahli.comDeveloped Back-end using PHP, Laravel, and SQLImplemented Front-end using Bootstrap 5, CSS, JavaScript, and jQuery	July 2021 – September 2021 Ramallah, Palestine

PROJECTS

NLP Experiments <i>Python, Pytorch, Numpy, Pandas, HuggingFace</i> <ul style="list-style-type: none">Experimented with different model architectures such as FFNNs, LSTMs, and Transformers (GPT-2 & BERT) to train and fine-tune language models to perform NLP tasks such as Question Answering and Fakes Detection	2023
Artificial Life 3D Morphology Evolutionary Algorithm <i>Python Pybullet, Pyrosim, Numpy, Pandas</i> <ul style="list-style-type: none">Created a system that mimics the process of evolution in a simulated environmentGenerates a population of creatures, simulates them in a virtual world, and evolves them based on a fitness metric	2023
Music for The Moment <i>Python, multi-threading, IBMWatson API, NLP</i> <ul style="list-style-type: none">Built an automated music player that selects appropriate music for spoken dialogue, where songs come from user-created YouTube playlists and the program automates song downloads and categorizationKeeps up with fast-paced dialogue and/or sentiment of improv showsUses Python multi-threading, IBMWatson API, and Natural Language Processing to collect speech, analyze sentiment and match music to the mood in concurrency	2021

TECHNICAL SKILLS

Languages: Python, C++, C#, JavaScript, SQL (postgres), HTML/CSS
Frameworks: React, Node.js, Flask, Cypress, Bootstrap, pandas, NumPy, Matplotlib, Pytorch, Figma, Balsamiq
Developer Tools: Git, Docker, Bitbucket, Confluence, Jira, VS Code, Visual Studio, AWS
Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Machine Learning, Deep Learning, Design & Analysis of Algorithms, Computer Systems, Databases, Agile Software Development, Scalable Software Architectures, Money & Banking, Corporate Finance, International Finance