Osama Esmail

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EDUCATION

University of Illinois at Urbana-Champaign
- BS in Computer Science   05/2021
- BS in Mathematics

EXPERIENCE

InnoPeak Technology   07/2021 - Present
Software Development Engineer
- Implemented research and development algorithms for C++ & Android applications
- Parallelized real-time image analysis & object detection algorithms

IMC Trading   06/2020 - 08/2020
Quantitative Trading Intern
- Analyzed and simulated block trading strategies and their profits in JupyterLab with Python

Amazon   05/2019 - 08/2019
Software Development Engineering Intern
- Contributed to internal subscriptions API written with Spring Java Framework
- Displayed API contributions in internal tool written in AngularJS

Illinois Geometry Lab   01/2019 - 05/2019
Undergraduate Researcher
- Analyzing Champaign County health inspection data to streamline future inspections
- Collaborating to create a machine learning model for the data using TensorFlow

Illinois Rocstar   05/2018 - 08/2018
Software Engineering Intern
- Developed product website front-end using ReactJS, creating new components and overhauling various aspects of the front-end
- Debugged and updated Python Flask back-end, including modifying models, working with NoSQL, and adding new features to be implemented on the front-end

PROJECTS

Crypto Trader
- Deployed a cryptocurrency trading bot written in Python with Coinbase Pro's API to Heroku

Optimal Rubik's Cube Solver
- Threaded processes asynchronously in C++ to speed up a Rubik's Cube solver
- Used CUDA to further parallelize the solver

Schedule Optimizer
- Deployed a ReactJS website (NodeJS backend) with 4 group members for making conflict-free schedules at our university.

CS:GOtcha
- Developed fully functional first-person shooter over Spring 2017 with a friend using Unity3D and various C# & JavaScript scripts.

SKILLS AND INVOLVEMENT

Computer Languages: Python, JavaScript, C++, Java, HTML/CSS3, C#
Frameworks, Libraries and Technologies: TensorFlow, PyTorch, NumPy, Pandas, CUDA, ReactJS, Flask, Git
Interests: Chicago Bulls, Chicago White Sox, Green Bay Packers, Trivia, Cooking Shows, Futurama