Osama Esmail

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Education

University of Illinois at Urbana-Champaign Expected Graduation 05/2021 • BS in Computer Science GPA: 3.89 • BS in Mathematics Niles West High School 05/2017 • 4.2/4.0 GPA **Current Coursework** Numerical Methods I Statistics and Probability I Real Analysis (Honors) Computer Architecture **Past Coursework** Computer Science: Intro to Computer Science (Honors), Discrete Structures, Data Structures Mathematics: Fundamental Mathematics (Honors), Differential Equations (Honors), Applied Linear Algebra Experience 05/2018 - 08/2018 Full Stack Intern, Illinois Rocstar Developed product website front-ends using ReactJS Debugged and improved Python Flask back-ends Android Front-End Developer, ForNoJo LLC 10/2017 - 12/2017

Skills

• Computer Languages (from most experience to least experience):

Tutor, America Reads

comprehension.

- Python, JavaScript, C++, Java, HTML, C#
- Languages:

09/2017 - 12/2017

- English (native), Spanish (conversational), Urdu (comprehend), Hindi (comprehend), Memoni (comprehend)
- Student Organizations:
 - o SIG AI (Artificial Intelligence), Academic Team, Math Contests Group, Billiards Club, Illini Pullers
- Leadership Roles:
 - Captain of high school Math Team, Science Olympiad Team (science competition) and Quiz Bowl (trivia)

• Develop and debug the Android front-end of a mobile application

Help kids in the local Urbana-Champaign schools with their math and reading

Projects

- 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
- Meetup Marker
 - Developed an Android app in Java for spontaneous social events with a friend at HackIllinois.
 - Utilized Google Maps API and developed a Python Flask API for the backend.
- Schedule Optimizer
 - Deployed a ReactJS website (NodeJS backend) with 4 group members for making conflict-free schedules at our university.
- Narc
 - Worked with 4 teammates during a hackathon to make an Android app in Java for sending pictures and locations of handicap parking spot infractions to local law enforcement.
- CS:GOtcha
 - Developed fully functional first-person shooter over Spring 2017 with a friend using Unity3D and various C# & JavaScript scripts.