ABUBAKER OMER

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EMPLOYMENT

Junior Full Stack Developer   **Lumos (Startup)**   **June 2017 - Present**
- Built a scheduled Web scraper to extract university events details from 6 different universities' calendars.
- Set up a real-time database to store events' details.
- Worked closely with the design team to enhance the UI and UX of the iOS app.

Cyber Security Intern   **QCRI**   **June - August 2016**
- Deployed a malware honeypot in a Raspberry Pi 2 to detect malicious activity in QCRI's internal network.
- Implemented a log shipper to process, index, and send logs in real-time to an Elasticsearch Server.
- Used a Kibana server to visualize malicious activity from shipped logs.

EDUCATION

BS in Computer Science   **Carnegie Mellon University**   **Class of 2019**

Coursework: Parallel & Sequential Data Structures | Functional Programming | Intro to Computer Systems | Graph Theory | Embedded Systems | Distrusted Systems

Minor: Business Administration

PROJECTS

Comment Share (2017) | Chrome Extension | 1-Person Project
- Share YouTube comments and specify the video starting time with less than 4 clicks.
- Render YouTube pages to include a Share button in every YouTube comment.
- Share Comments and the associated YouTube video to Facebook, Twitter, Reddit, and CommentsHub.
  - JavaScript, NodeJS. Socket.IO, Mustache Templating System, Bootstrap, and Firebase.

CMU Events App (2017) | iOS Application | 1-Person Project
- Carnegie Mellon-Qatar based events iOS app
- Created a scheduled Web scraper to fetch events from Carnegie Mellon-Qatar's official calendar.
- Implemented an event recommendation card-swipe view.
- Integrated Facebook Login to allow faster and easier user authentication.
- Added the ability to see Facebook friends attending recommended events.
  - React Native, expo.io, JavaScript, Heroku, and Firebase.

NIXT ChatBox (2016) | C Program | 2-person Project
- Multi-threaded UNIX-based instant messaging system that allows both private and group chats.
- Created the client-server communication protocol.
- Built the server-side of the project, and implemented the concurrency in the client-side.
  - C, ANSI escape code, POSIX Threads.

AWARDS

Awarded 1st Place, CS50x Coding Contest by Harvard University, 2016:
- Won an online programming contest, out of 659 participants from 89 countries.

SKILLS

Programming Languages (Proficient): Python, C, JavaScript, NodeJS, Standard ML, HTML/CSS, React Native.
Interests: Social Psychology, Mobile Development, Mobile UI/UX.