Sharjeel Khan

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY
PhD in Computer Science
Aug 2018 - Present

CARNEGIE MELLON UNIVERSITY
BS in Computer Science
Aug 2013 - May 2017
Minor in Mathematical Sciences
University Honors
Dean's List (5 semesters)

SKILLS

LANGUAGES
Python, Javascript, SML, Java, C, LaTeX

FRAMEWORKS/ PROOF ASSISTANTS
Django, AngularJS, Bootstrap, Twelf, Celf, Coq

LIBRARIES
D3, PeerJS, jQuery, Tensorflow

IDE / EDITORS
Atom, PyCharm, Vim, Sublime

HONORS

MOST SUPPORTIVE AND HARD WORKING COURSE ASSISTANT
University
May 2017

SENIOR STUDENT LEADERSHIP AWARD
University
May 2017

EAA AWARD FOR HUMANITARIAN TECHNOLOGY
CarnegieApps Hackathon
Jan 2017

UNDERGRADUATE TEACHING IN COMPUTER SCIENCE APPRECIATION AWARD
University
May 2015

EXPERIENCE

CARNEGIE MELLON UNIVERSITY IN QATAR | Research Assistant
May 2017 – July 2018 | Doha, Qatar
- Worked on Meta-CLF project with Iliano Cervesato and Giselle Reis
- Formalized Automated Trading Systems in Celf, a concurrent logical framework
- Proved properties about the formalization of ATS like no crossed/locked market
- Developed the meta-theory for Concurrent Logical Framework (CLF) to create the automated tool to verify proofs in Celf

CARNEGIE MELLON UNIVERSITY IN QATAR | Teaching Assistant
June 2014 – May 2017 | Doha, Qatar
- Worked as an Undergraduate Teaching Assistant for 7 distinct courses
- Tutored and helped students with material and concepts taught in the class during my office hours
- Graded written homeworks and created the autograder for the coding homeworks

MEDDY | Software Engineering Intern
Jan 2017 – April 2017 | Doha, Qatar
- Moved Transaction Emails from Django's personal email system to Mandrill
- Created the dashboard to show Google analytics and Django analytics to clinic managers for them to track their doctors
- Worked on the interface for clinics to send bulk SMS messages to their clients

CARNEGIE MELLON UNIVERSITY IN QATAR | Research Assistant
Dec 2014 – May 2015 | Doha, Qatar
- Worked on ChiQat, a Java project to teach undergraduate students about data structures and recursion, with Davide Fossati
- Graded the students' tests and checked to see improvement in student's understanding of the concepts

RESEARCH

FORMALIZATION OF AUTOMATED TRADING SYSTEMS IN CONCURRENT LINEAR FRAMEWORK (CLF)
Linearity and TLLA Workshop
July 2018 | Oxford, United Kingdom

PROJECTS

KESA | Full Stack Developer
Mar 2016 – Aug 2016 | Doha, Qatar
- Built a web application to allow users to create and read stories with branching storylines
- Created using Django and AngularJS with D3 for visualization and tree structures and PeerJS for collaborative sessions.

CONCURRENT DISTRIBUTED FILE SYSTEM | System Developer
Sep 2015 – Oct 2015 | Doha, Qatar
- Built a concurrent distributed file system with multiple storage serves and a main naming server.
- Created my own Java RMI library for communication between the different servers