

SANNAN TARIQ

624 Clyde Street
Pittsburgh, PA, 15213
+1 (412) 961 2243
stariq@andrew.cmu.edu

EDUCATION

CARNEGIE MELLON UNIVERSITY

Bachelor of Science in Computer Science

Expected Graduation: May 2017

- CGPA: 3.83/4.00
- Minor in Mathematics
- Dean's List: Fall 2013 - Present

PROJECTS AND RESEARCH

- **Sequence Based Named Entity Tagger (in Python)**
Implemented a named entity tagger using machine learning techniques as a course project
- **Dynamic Memory Allocator (in C)**
Implemented a dynamic memory allocator as a course project
- **HTTP Web Server (in C)**
Implemented a RFC compliant HTTP/1.1 server as a course project
- **Peer to Peer File Transfer Client (in C)**
Implemented a p2p chunk based file transfer client as a course project
- **Video Streaming Proxy with bit-rate adaptation (in C)**
Implemented a proxy with user offloading and throughput sensitive bit-rate adaptation capabilities as a course project
- **Real Time Data-Visualization Tool (in Python)**
Developed a real time data visualizer to be used to monitor an IOT testbed in order to assist in research
- **Map-Reduce: A distributed computation framework (in Java)**
Implemented a framework to carry out distributed computation on multiple machines as a course project
- **Empirical Device-to-Device IoT-based Data Transfer**
Carried out experiments to accurately measure networking and communication capabilities of Intel Edison and Raspberry Pi devices as a part of research for a paper

WORK EXPERIENCE

CARNEGIE MELLON UNIVERSITY

Course Assistant

January 2014 – December 2015

- Courses Assisted: Fundamentals of Programming and Computer Science, Principles of Imperative Computation, Introduction to Computer Systems
- Gave weekly in-class hour long recitations for Introduction to Computer Systems

CARNEGIE MELLON UNIVERSITY

Undergraduate Research Assistant

May 2015 – July 2015

- Developed a Real-Time data visualization tool using Python and the Plotly streaming library
- Implemented a data collection and retrieval system for collecting and visualizing the metrics sent by test devices over the network

RELEVANT COURSEWORK

- **Low-level and systems programming:** Intro to Computer Systems, Computer Networks
- **Software Development:** Principles of Software Construction, Intro to Text Processing
- **Algorithms and Theory:** Formal Languages, Automata and Computability, Algorithm Design and Analysis

ADDITIONAL SKILLS

- Programming Languages : C (Advanced), Java (Advanced), Python (Advanced), SML (Intermediate), MATLAB (Basic)
- Languages: Urdu (Native), Hindi (Fluent), English (Fluent), German (Basic)
- Hobbies: Reading, Football