


# Julian Sam

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 Julian-Sam

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## Education

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**Carnegie Mellon University**

**B.S. in Computer Science**

**Minor:** Business Administration

**Honors:** Deans' List in Fall 2015, Fall 2016, Spring 2017

Graduating: May 2019

**GPA: 3.77/4.00**

## Experience

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**Undergraduate Student Research, QSIURP**

May 2018 - July 2018

*Qatar Student Initiated Undergraduate Research Program (QSIURP) at CMU-Q*

- Implemented an assertion engine for the SML programming language.
- New version of the SML language to be used in future courses at CMU-Q.

**Full Stack Software Engineering Intern, Meddy**

May 2017 - Jan 2018

*Developed software at one of the leading startups in Qatar. ([meddy.com](http://meddy.com))*

- Helped refactor existing codebase to push a new, more robust version of the website.
- Developed localization modules to help launch the Meddy website in new countries.
- Developed statistical tools for internal and client side usage.

**Undergraduate Course Assistant**

Aug 2016 - May 2017

*15-112: Fundamentals of Programming and Computer Science*

- Helped create automated grading system to check student's homeworks
- Worked on developing new projects for future iterations of the course.

## Technical Skills

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**Proficient:** C, Python, Javascript (ReactJS & AngularJS), Django

**Familiar:** C++, Java, MySQL, Standard ML, Photoshop, Illustrator

## Projects

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**Nixt Chatbox**

Dec 2016

- Terminal-based instant messaging system programmed in C.
- Multi-threaded program allowed for both private and group chats.
- Developed the communication protocol between clients and handled threaded client I/O.

**Malloc Package**

Nov 2016

- Implemented a C dynamic memory allocator package
- Performs efficient searching for memory storage space using segregated lists.
- Includes several optimizations to reduce total fragmentation and throughput

**FIFO 16**

Dec 2015

- Developed a 2D multiplayer football game in Python, built on the PyGame library.
- Worked with building the rigid body physics of the players and the objects

## Leadership and Awards

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**Vice President of the Computing Club**

Aug 2016 - May 2017

- Organized campus-wide programming competitions, programming workshops, etc.
- Aided students in starting independent robotics projects.
- Helped market the club to incoming and current students.

**1st Place in Harvard's CS50x Course Hackathon**

July 2016

- Won against over 600 teams around the world, in a 72-hour programming contest
- Competition hosted by Harvard University.