

# MARTIN ZHU

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## EDUCATION

### Brown University

Fall 2013 – May 2017

- B.S. in Computer Science, expected May 2017. 3.5 GPA.
- Graduate Coursework: Advance Algorithms, Applied Cryptography, Deep Learning
- Undergraduate Coursework: Cryptography, Data Science, Algorithms, Databases, Computational Biology, Computer Security, Software Engineering, Computer Systems, Theory of Computation, Functional Programming, Data Structures

## SKILLS

### Programming

- Python, Java, Scala, C, SQL, Go, Javascript/JQuery, HTML/CSS, PHP

### Technologies

- Reactive Streams, Apache Spark, Lambda Architecture, D3, LAMP Stack, MongoDB, Neo4j, Git, Linux/Windows/Mac, MySQL, SQLite, Virtualbox, Eclipse, IntelliJ

## EMPLOYMENT

### Software Engineering Intern

Facebook

May 2016 – Aug 2016

- Developed and designed open source Technology Compatibility Kit (TCK) for ReactiveSocket using Java and Scala.
- TCK is language agnostic and allows users to verify ReactiveSockets implemented in any language.
- Collaborated over Github with Netflix engineers who were also working on ReactiveSocket in order to standardize TCK.
- TCK can be found at [github.com/ReactiveSocket/reactivesocket-tck](https://github.com/ReactiveSocket/reactivesocket-tck).

### Data Science Intern

Velankani Information Systems

May 2015 - Sept 2015

- Worked directly with the CTO to use Apache Spark, Kafka, Hadoop, MongoDB, Neo4j, AWS, and machine learning to build a scalable distributed data analysis application for processing live streams.
- Designed architecture for stream analytics based on Lambda Architecture and implemented a Twitter job classification and analysis platform. Discovered that job availability on Twitter is an illusion. Project open sourced with Apache 2.0 license and placed at [github.com/xytosis/dataworx](https://github.com/xytosis/dataworx).

### Teaching Assistant

Brown University Dept. of CS

Spring 2015 – Current

- Duties include holding weekly office hours, grading homework and exams, and developing course material.
- Fall 2016: CSCI1570, Algorithms
- Spring 2016: CSCI0320, Introduction to Software Engineering
- Fall 2015: CSCI0330, Introduction to Computer Systems
- Spring 2015: CSCI0180, Integrated Introduction to Computer Science

## PROJECTS

### Co-founder

Botler

May 2016 – Current

- Botler is a chatbot platform that can be found at <https://heybotler.com>
- We allow anyone (no programming experience needed) to make powerful chatbots and instantly share them with everyone around the world.
- Users can create Data Bots, which are key value stores, or Service Bots, which they can hook into their own API endpoint.
- Bots can be accessed through our website or through SMS if users do not have access to Internet.
- We have conducted several successful trials at conventions with 1500+ people and in high school classrooms.

### Co-founder

MAHI

May 2015 – October 2015

- MAHI, or Machine Amplified Human Intelligence, can be found at <https://mahi.tech>
- The system uses speech recognition and identifies topics in conversation and makes intelligent decisions about the subject to display information and gather related topics.
- Directed product and implemented backend and infrastructure, and manages web hosting.