

# Fahad Kamran

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## EDUCATION

### UC BERKELEY

TRIPLE MAJOR IN PURE  
MATHEMATICS, COMPUTER SCIENCE,  
AND STATISTICS

Expected May 2018 | Berkeley, CA  
Cum. GPA: 3.76

### CENTERVILLE HIGH SCHOOL

Graduated May 2014 | Centerville, OH  
Graduated with an Honors Diploma  
Awarded National AP Scholar

## COURSEWORK

### COMPLETED

Structure and Interpretation of Computer Programs

Multivariable Calculus

Data Structures and Algorithms

Discrete Mathematics and Probability Theory

Linear Algebra and Differential Equations

Great Ideas in Computer Architecture

Introduction to Real Analysis

Introduction to Artificial Intelligence

Introduction to Complex Analysis

Concepts of Probability

Efficient Algorithms and Intractable Problems

Advanced Linear Algebra

Teaching Techniques for Electrical Engineering

## SKILLS

### PROGRAMMING

Programming languages known:

• Java • C • JavaScript • Python • Scheme • MIPS • Git • Unix • SQL • Android •  $\LaTeX$  • HTML • CSS • Ruby on Rails • PHP • MEAN.js

Areas of skill:

• Data Structures • Artificial Intelligence  
• Teaching Techniques • Algorithms

### OTHER

Languages Known:

• Urdu • English • Spanish

## TEACHING ASSISTANT FOR DATA SCIENCE

January 2016-May 2016 | Berkeley, CA

- I am teaching Foundations of Data Science, which is in its second semester and is intended for students looking for programming experience that will be applicable to their every day lives and career.
- I am hired for 20 hours and my responsibilities include teaching two sections, holding two office hours, weekly staff meetings, and overall course and software development.

## TEACHING ASSISTANT FOR ARTIFICIAL INTELLIGENCE

June 2016-Present | Berkeley, CA

- I will be teaching the upper-division course Introduction to Artificial Intelligence.
- I will be hired for 20 hours and my responsibilities will include teaching sections, holding office hours, attending staff meetings, and working on a lot of back-end software in order to keep the class running smoothly.

## COMPUTER SCIENCE MENTORS PRESIDENT

January 2015 - Present | Berkeley, CA

- Began just teaching section, but transitioned into both teaching section and teaching others how to teach section.
- Now, I both teach and I am part of the executive committee. I used to be the data analyst, but I am currently president of the organization.

## RESEARCH

March 2016 - Present | Berkeley, CA

- Entered the physionet challenge with a PhD student in order to employ deep learning techniques to determine heartbeat abnormalities.

## PROJECTS

**TLDR** [WWW.GITHUB.COM/TOMMYHUYNH/TLDR](http://www.github.com/tommyhuynh/tldr)

October 2015

- Created a google chrome extension which reads in an article and summarizes it, with the option of a small, medium, or large summary using CSS and Javascript. I primarily worked on the algorithm for creating the summary.

## VARIOUS PYTHON SCRIPTS

August 2014-Present

- Including scripts to do quick searches on IMBD and store all of the Youtube history of an account into an easy to use file.

## CHORES

June 2016-Present

- Currently creating a rails application to streamline the process of chore distribution and completion for my apartment.

## GITLET

April 2015

- Created a portion of the popular virtual control system Git using Java, allowing operations such as pull, push, commit, branch, and many more.

**ECARD** [WWW.HASSAN-ECARD.HEROKUAPP.COM](http://www.hassan-ecard.herokuapp.com)

January 2016

- Created a password protected e-card for my brother's wedding using Ruby on Rails, HTML, CSS, and Javascript.