Fahad Kamran

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fhdkmrn.github.io
fhdkmrn@berkeley.edu | 937.499.4885

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
Introduction to Machine Learning
Abstract Algebra
Concepts of Statistics
Game Theory in Statistics
Elementary Algebraic Topology
Introduction to Database Systems
Introduction to Time Series

SKILLS

PROGRAMMING
Areas of skill:
• Data Structures • Artificial Intelligence • Teaching Techniques • Algorithms

Programming languages known:
• Java • C • JavaScript • Python • R • SASS • Scheme • MIPS • Git • Unix • SQL • Android • LaTeX • HTML • CSS • Ruby on Rails • PHP • MEAN.js

TEACHING ASSISTANT (DATA SCIENCE, AI, DATA STRUCTURES)
January 2016-Present | Berkeley, CA

- I have taught 5 semesters worth of courses: Foundations of Data Science twice (Head TA once), Introduction to Artificial Intelligence, and Data Structures and Algorithms.
- My basic responsibilities include teaching sections, holding office hours, creating exams and worksheets, and overall course development.
- For my semesters with Data Science, I was in charge of creating a lot of material as it is a new course. I was also in charge of building the website in Fall 2017: data8.org/fa16. This next semester, I will be in charge of auto-grading assignments.
- For my semester with Data Structures and Algorithms, I was in charge of making sure tutoring for the course ran smoothly, and I was in charge of collecting all of the final grades and helping deal with the final requests that were made.

84.51° (KROGER/RALPHS) Data Analyst Intern
May 2017-August 2017 | Cincinnati, OH

- Used machine learning models to select important targeting variables to identify which households to send coupon offers to.
- Introduced Natural Language Processing to the company, creating an application to extract themes from comments and writing an introductory document to explain the concept to beginners.

COMPUTER SCIENCE MENTORS President
January 2015 - May 2017 | Berkeley, CA

- I taught both sections for course content as well as sections on how to teach.
- I am part of the executive committee. I was previously the data analyst but I became the president of the organization for a year. I am now an advisor

MACHINE LEARNING RESEARCH EECS: Yusuf Bugra Erol
March 2016 - Present | Berkeley, CA

- Entered the Physionet challenge with a couple of PhD students in order to imploy deep learning techniques to determine heartbeat abnormalities.
- Currently exploring the use of generative features from architectures like Wavenet in discriminative tasks

PROJECTS

TLDR 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.

CHORES www.chorecycle.herokuapp.com
June 2016-Present

- Created a ruby on 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
January 2016

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