FATIMA IBRAHIM-BIANGORO

SOFTWARE ENGINEERING/
DATA SCIENCE/AI RESEARCH/
PRODUCT MANAGEMENT

CONTACT

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EDUCATION

University of California, Berkeley
Computer Science, Cognitive Science
2014-2018

AWARDS & HONORS

Berkeley Science Network Scholar
UC Berkeley, 2014-present
Computer Science Scholar
UC Berkeley, 2015-2016
Palantir Future Scholarship Finalist
Palantir, 2017
Box Diversity Scholarship Semifinalist
Box, 2017

COURSEWORK

*classes I am enrolled in
**classes I am auditing

Economics
Ruby on Rails
Introduction to AI
Machine Learning**
Principles of Business
Product Management
Probability and Statistics
Foundations of Data Science
Efficient Algorithms & Intractable Problems
Data Structures & Advanced Programming
Structure & Interpretation of Computer Systems
Linear Algebra & Differential Equations
Great Ideas in Computer Architecture (Machine Structures)
Discrete Mathematics and Probability
Introduction to Database Systems
Principles and Techniques of Data Science*

EXPERIENCE

Web Developer, Product Management / Feb 2017-present
UC Berkeley School of Public Health, onlinemph.berkeley.edu
• Redesigned and created the school's website with WordPress, front-end HTML, CSS, PHP, & backend JavaScript to client's specifications and to track website traffic
• Utilized Facebook and Google Ad to analyze 6 effective online ad campaigns, complete campaign backlogs and market research, and collaborated across the design, marketing, and developer teams

PROJECTS

CS 188: Artificial Intelligence (Python) / Fall 2017
• Refined a game of Pacman using search algorithms, representations of knowledge, inference
• Implemented a binary perceptron, computation graphs (computed using backpropagation) to compute vectorized gradients and created a small neural network library
• Trained the neural network to approximate the sin(x) regression over [-2pi, pi], classify handwritten digits from the MNIST dataset, performed approximate Q-Learning using a deep neural network to solve the cartpole task, and built a small neural network model that identifies language for one word at a time given a provided dataset
Industrial Engineering & Operational Research 186 (Product Management) / Fall 2017
• Designed, conducted research on, and currently developing a lifestyle app (**dayli)** to track daily activities to pitch to potential investors at the end of the semester
• Completed MVPs, market validation, competitve analyses, backlogs, collaterals, and prototypes for the product
Cognitive Science N1 / Summer 2017
• Conducted and presented a cognitive research proposal on neural decoding in Machine Learning for more emotionally intelligent AI agents
Personal Website (JavaScript, CSS, HTML, PHP) / Summer 2017—Present
fatimaibrahimbiangoro.com
Hack.Syria Hackathon App (Java, XML) / Feb 2017—Present
• Utilized the Android SDK to develop an app prototype for a craigslist-like mobile application to connect Syrian refugees abroad in new countries to local landlords and hiring managers
CS 186: Introduction to Database Systems (Java) / Spring 2017
• Designed and created a database architecture with a B+ tree structure using Java by integrating query optimization with system R optimizer
Data Science C8: Data Science (Python, NumPy) / Spring 2017
• Designed and manipulated data from http://data.gov on the correlation between data from high school demographics in New York and surrounding employment demographic rates
CS61C: Computer Architecture (C, MIPS) / Fall 2016
• Designed and created a CPU through a software simulator (Logisim)
CS61B: Data Structures & Advanced Programming (Java) / Summer 2016
• Implemented image rastering and a back-end web mapping app of Berkeley, which used Dijkstra's algorithm for shortest directions to user input for optimal runtime

INVOLVEMENT

Black Engineering and Science Student Association/ Aug 2017-present
UC Berkeley BESSA-NSBE Finance Officer
•Managing finances + writing grant proposals for the UC Berkeley National Society of Black Engineers (NSBE) chapter
CS10: The Beauty and Joy of Computing / Aug 2015-Dec 2015
Lab Assistant
• Taught the fundamentals of programming with a focus on major areas of computing such as abstraction, design, recursion, concurrency, simulations, and the limits of computation.
•Resolved ~250 bugs on a weekly basis through labs and course projects

SKILLS

Java / Python / SQL
Scheme / HTML / CSS / C

DATABASE MANAGEMENT SYSTEMS

Oracle / Microsoft SQL Server
MySQL