Diana Akrami

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EDUCATION

UNIVERSITY OF CALIFORNIA AT BERKELEY **Expected May 2018**
Candidate for Bachelor of Arts, Computer Science

Coursework:
- ***CS61A*** - Structure and Interpretation of Computer Program
- ***CS61B*** - Data Structures
- ***CS61C*** - Machine Structures and Computer Architecture
- ***CS70*** - Discrete Mathematics and Probability
- ***MATH54*** - Linear Algebra and Differential Equations
- ***UGBA10*** – Principles of Business
- ***CS161*** - Computer Security
- ***CS162*** - Operating Systems
- ***CS C100*** – Principles and Techniques of Data Science
- ***CS168*** - Internet Architecture and Protocols

Awards:
- ***Tri Psi Scholarship Recipient*:** Awarded to an undergraduate Tri Delta who demonstrates leadership and scholarship
- ***ETS Scholarship Recipient:*** Awarded to historically underrepresented students with high scholastic achievements
- ***Panhellenic Foundation Award:*** Awarded to women in Panhellenic who exhibit scholastic success and passion

TECHNICAL SKILLS

- **Programming Languages** – C, Java, Python, Scheme, HTML, CSS, jQuery, SQL, JavaScript, Swift, LATEX,
- **Software**: Eclipse, XCode, Hadoop, Logism, Git, Vim, Bash

WORK EXPERIENCE

SALESFORCE, San Francisco, CA **May 2017 – August 2017**

Title: *Software Engineer Summer Intern*

- Incoming Summer Intern

ORACLE, San Francisco, CA **June 2016 – August 2016**

Title: *Software Analytics Summer Intern*

- Pull information out of customer databases for the purpose of analysis and optimization with the data science organization in order to create algorithms that utilize machine learning techniques
- Work closely with the customer success organization to evaluate the effectiveness of different algorithms
- Create high-level algorithm documentation for customers and clients of Oracle in preparation for system migration

EECS DEPARTMENT, Berkeley, CA **August 2015 – May 2016**

Title: *Lab Assistant for The Structure and Interpretation of Computer Programming (CS61A)*

- Provide opinions and advice to the TA's on how effective a potential assignment will be by evaluating each concept
- Mentor and guide students through their first programming class, answering questions and tutoring students when necessary
- Teach new Computer Science students more efficient and practical ways to code while staying in the realm of an intro course

COLDWELL BANKER, Walnut Creek, CA **May 2015 - August 2015**

Title: *Financial Analyst Intern*

- Provide clients with advice on loans and budgeting by analyzing their income and any other data provided
- Explain housing contracts, appraisals, and other real estate terms to potential new buyers in order to ensure effective decisions
- Perform financial analysis on offers and loans in order to efficiently provide clients with their best options

PROJECTS

PERSONAL WEBSITE: dianasauur.github.io (In Progress: HTML, CSS, JavaScript, jQuery)

- Personal Website made using HTML, CSS, and jQuery
- Will be implementing more effects with the use of JavaScript and jQuery

HEAT PUMP SPIKE PREDICTOR (Finished: Python, Numpy and Pandas Packages, Statistics)

- Created a "spike" predictor that utilizes machine learning to predict when an electric meter will spike in kwh usage in order to prevent overflow in the electric meter's corresponding transformer
- Skills utilized in this project include Probabilistic Graphical Models, Linear Regression, Correlation, and other statistical methods

GITLET (Finished: Java, Bash)

- Designed and developed from scratch a small-scale version control system based on Git that saves/restores files and manipulates branches via the command line.
- Built fully in Java and maintains efficient time and space complexities with the use of serialization and deserialization

MIPS CPU (Finished: C, Logism, MIPS)

- Built a two-pass assembler for a subset of the 32-bit MIPS instruction set and the corresponding processor circuit that can perform simple operations and read from/write to memory.
- Efficiently and successfully ran multiple machine codes in a processor, including the Instruction Fetch Phase, Decode/Register Read Phase, Execution Phase, and Register Write Phase