

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

Awards: *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
Gabriel Jackson Scholarship: Awarded to one undergraduate who embodies the values of scholarship, leadership, and service

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

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: dianaakrami.com (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

LEADERSHIP AND OTHER ACTIVITIES

DELTA DELTA DELTA FRATERNITY

December 2015 - Present

Title: *Vice President of Finance*

- Create a six figure budgets for all chapter operations, for the housing and dining of 73 women, and for Fraternity Expenses
- Analyze spending habits to allocate money more efficiently and effectively while also providing advice to chapter officers