MICHAEL JU

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY — Berkeley, CA
Bachelor's Degree Computer Science, **GPA: 4.00** — May 2018
Regents and Chancellors Scholar

IRVINGTON HIGH SCHOOL — Fremont, CA
GPA: 4.00 — June 2014
National Merit Scholarship Finalist, National AP Scholar

COURSEWORK

Structure and Interpretation of Computer Programs (Python, Scheme, SQLite)
- Recursion, object-oriented programming, higher-order functions
- Data structures including linked lists, trees, streams
- Tail calls with Scheme
- Joins and recursive queries with SQLite

Data Structures and Advanced Programming (Java)*
- Fundamental data structures including linear lists, queues, and hash tables
- Algorithms for searching, sorting, and storing data

Discrete Mathematics and Probability Theory*
- Logic, induction, polynomials
- Probability concepts like sample spaces, random variables, and law of large numbers

*Current Course

PROJECTS

POLLSITE

Skills used: Django, Bootstrap, HTML/CSS, JavaScript, jQuery
Created a database-backed website that allows users to create a Pollsite account, log in and log out, and create and remove polls on which other members of Pollsite can vote; focused on understanding the Django model-view-template system

PERSONAL WEBSITE

Skills used: Bootstrap, HTML/CSS, JavaScript, jQuery
Created a website to describe coursework in detail and act as a repository to finished and in-progress project code

SCHEME INTERPRETER

Skills used: Python
Worked with a partner to make an interpreter in Python for the Scheme language; implemented basic arithmetic, lambda expressions with both lexical and dynamic scope, and Scheme special forms, like quote, if, and cond; focused on the mutual relationship between evaluation and application

SKILLS

Python, HTML/CSS, JavaScript, jQuery, Scheme, SQL, Java, Bootstrap, Django
Mac OS, Windows, Linux/Unix
Multivariable Calculus, Linear Algebra, Differential Equations