

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	
Dean's Honor List (Fall 2014)	
IRVINGTON HIGH SCHOOL	Fremont, CA
GPA: 4.00	June 2014
National Merit Scholar	
National AP Scholar	

COURSEWORK

Structure and Interpretation of Computer Programs (Python, Scheme, SQL)
Linear Algebra and Differential Equations
Data Structures and Advanced Programming (Java)
Discrete Mathematics and Probability Theory
Machine Structures (C)*
Efficient Algorithms and Intractable Problems*
*Current Course

EXPERIENCE

TECHNICAL INTERN AT COVERITY, SYNOPSYS, INC.
Used JavaScript, jQuery, HTML/CSS, Dropwizard (Java), MySQL
Revamped Business Modeler, a web application that allows users to:

- model a code project by mapping classes to representative visual containers
- organize and nest containers into different geometric layouts with drag-and-drop
- view metrics from Coverity's static analysis tools, displayed on a color scale

Rewrote Flex front-end with native JavaScript, joining with Dropwizard server via AJAX
Designed algorithms for geometric restructuring of container divs during drag-and-drop
Wrote back-end API services for loading and saving a model and retrieving metrics data

PROJECTS

POLLSITE
Used Django, Bootstrap, HTML/CSS, JavaScript, jQuery
Created a database-backed web application that allows users to:

- create a Pollsite account, log in, and log out
- create and remove polls on which other members of Pollsite can vote

Wrote tests to ensure functionality of both user authentication and voting system

GITLET
Used Java
Implemented own local revision control system with serializable objects
Commands included: add, remove, commit, checkout, merge, rebase

SKILLS

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