

Jennifer Yip

Email jenniferyip@berkeley.edu **Phone** (925) 520-5721
Tools Python, Java, SQL, Ruby on Rails, HTML, CSS

EDUCATION

University of California, Berkeley (Berkeley, CA)
Bachelor of Arts, Computer Science

Expected Graduation: 05/2018
Cumulative GPA: 3.5

Technical Coursework: Structure and Interpretation of Computer Programs (CS 61A), Data Structures (CS 61B), Machine Structures (CS 61C), Discrete Math (CS 70), Software Engineering (CS 169), Databases (CS 186)

WORK & COURSEWORK EXPERIENCE

Work & Research

ANOVA – Technology Committee (Berkeley, CA)	Web Developer	<i>09/2016 - present</i>
Pair programming to restructure and redesign ANOVA's home page		HTML, CSS, Ruby on Rails
Designing responsive page layouts and adding membership login capabilities		
Banfield Laboratory (Berkeley, CA)	Undergraduate Research Assistant	<i>09/2015 - present</i>
Multiple sequence alignment of CRISPR spacers using the Needleman-Wunsch algorithm		Python, R
Building visualization of dataset for later analysis of bacterial strains microevolutions and comparative genomics		
Contributed to data collection (next gen sequencing) in Human Microbiome Project observing gut colonization		
Analysis of data outputs of various bioinformatics pipelines (QIIME, DADA2)		
Lawrence Livermore National Lab (Livermore, CA)	Computation Intern	<i>05/2016 - 08/2016</i>
Built pipeline to compare gene data to detect potential of genetic engineering		Python, HTML, CSS
Connected gene databases to find impact of genetic composition on virulence/antibiotic resistance		
Presented poster at Northern California Computational Biology Student Symposium & LLNL Summer Symposium		
UC Berkeley Sociology Department (Berkeley, CA)	Administrative Support	<i>09/2015 - 06/2016</i>
Data entry for Sociology Library and managed graduate opportunities WordPress blog		

Class & Personal Projects

California Poets in the Schools (CS 169 Project)	Co-Project Manager	<i>Fall 2016</i>
Building publishing platform through agile development methodology with test-driven approach		Ruby on Rails
Web application that provides automation and regulation of content uploads by site users		
Gitlet (CS 61B Project)		<i>Fall 2015</i>
Implement miniature version control with similar features to git – commit, log, branch, merge		Java
A Small Database System (CS61B Project)		<i>Fall 2015</i>
Implement miniature Relational Database Management System (RDMS) with simple query language		Java

EXTRA CURRICULAR ACTIVITIES

Service

ANOVA	Site Teaching Assistant	<i>09/2016- present</i>
ANOVA introduces computer science topics to middle/high school students in under-resourced communities		
Introducing HTML/CSS to students in after school programs at Claremont Middle School (Oakland, CA)		
UC Berkeley CS61A	Lab Assistant	<i>05/2015-08/2015</i>
CS61A is an introductory computer science class that covers abstraction, trees, recursion, inheritance		
Assisted students in Office Hours with homework, labs, projects, and test preparation		

Student Organizations

AWE (Association of Women in EECS)	Treasurer	<i>01/2016 - present</i>
AWE creates a safe and supportive community for women interested in computer science		
Creating and managing budget, handling reimbursements and invoices		
Align: Undergrad Society for Computational Biology	Co-Founder	<i>11/2015 - present</i>
Align increases awareness of computational biology through workshops and professional development events		
Organizing events, managing public relations, and increasing online presence through social media		

OTHER INTERESTS: Acapella – Bioinformatics – Biochemistry – Bread – Graphic Design – Microbiology