Bailey Chen

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EDUCATION

University of California, Berkeley Aug 2015 – (Expected) May 2019
Bachelor of Arts, Computer Science
Core Course GPA: 3.81/4.0
Relevant Coursework: Data Structures, Operating Systems and System Programming, Efficient Algorithms and Intractable, Problems Database Systems, Artificial Intelligence, Machine Structures and Computer Architecture, Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability Theory, Internet Architecture and Protocols
Honors: Fall '15 Deans Scholar, Spring '16 Deans Scholar

WORK EXPERIENCE

Veeva Systems Pleasanton, Ca
Software Engineer Intern Summer 2018
- Spearheaded customer-facing feature for software cloud service to streamline drug-development for biopharmaceutical companies.
- Feature reduced production cost by 15%, and improved user experience through widget interactions while exposing more helpful information for underlying workflow logic on Veeva Vault platform applications. *Java, JavaScript, HTML, CSS, SQL*
- Iterated with product managers, internal tools, UI team, and teammates to plan API architecture and determine optimal user-experience.

University of California: Rio Lab Berkeley, Ca
Laboratory Intern Summer 2016
- Utilized various molecular laboratory techniques such as in vivo Excision Assays, transfections, cell transformations, and designing and creating oligos to explore the ability of human, drosophila, and zebrafish THAP9 gene to mobilize drosophila P-element at varying concentrations.

Stanford University: Sidow Lab Palo Alto, Ca
Laboratory Intern Summer 2014
- Utilized next-generation high-throughput sequencing to study the cause of cancer and the driver of cancer development by comparing the gene expression profile change and genomic mutation between cancer tissue and the control normal tissue.

PROJECTS

Version Controller (Veeva Systems)
- Enhanced admin user experience by allowing users to view all versions of a created workflow
- Implemented UI dialog components for navigation to different workflow versions and view contextual information. *HTML, CSS.*
- Connected front-end NodeJS components to queries in MySQL backend database to present workflow version information for users

Trip Finder
- Implemented graph interfaces and provided packages for clients to manipulate graphs in Java.
- Coded packages that performed a-star search, depth-first search, and breadth-first search to display user-friendly directions for the best paths to take from a starting location to destination

Pacman
- Created Pacman that eats ghosts using neural networks and machine learning concepts such as: multi-class perceptron, backpropagation, reinforcement learning, gradient descent in Python.

SKILLS

Programming Languages
- Languages/Frameworks: Java, Python, C, SQL
- Web: JavaScript, HTML, CSS
- Software: Git, LaTeX

EXTRACURRICULAR ACTIVITIES

Upsilon Pi Epsilon (Computer Science Honor Society) May 2018 – Present
Publicity
Interviewed core members at UPE to share diverse perspectives and personal experiences to the Berkeley campus to tackle pre-existing notions of the major and the often toxic surrounding culture.