

SARAH KI

CONTACT

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EDUCATION

University of California,
San Diego

Bachelor of Science in

Bioengineering, Bioinformatics

GPA: 3.83

2017-2021

Member of Caledonian Society

2020-2021

SKILLS

Algorithms
BLAST
C#
CSS
Disciplined
Flask
Git
HTML5
Javascript
Microsoft Suite
Organized
Python
Self-Driven
Team Player

EXPERIENCE

DK International - Full Stack Web Development (FLASK)
2020

- Improved visibility and trust between the DK International and customers by developing an online interface
- Created a flexible and responsive website that showcases all service and products
- Link: dk-int.com

PROJECTS

Developed Web Application for AI-Powered EcoGenomics
UCSD | 2020-2021

- Built an online tool that converts a complex bioinformatic pipeline into a simple user friendly web application
- Designed an simple and intuitive website using CSS, Sass, JavaScript, Flask, and HTML
- Optimized accessibility of Bafna Lab EcoGenomic softwares by linking interface with interdependent tools
- Improved user experience by creating a interface that guides users on how to successfully run software without prior coding experience
- All work can be found: github.com/sarahki511/senior-design

Analysis of Retinal Bipolar Neurons using single-cell RNA profiling
UCSD | 2019

- Recreated peer-reviewed research on analyzing retinal bipolar neurons using single-cell RNA profiling via Python on mouse retinal bipolar cells
- Generated a specific subdivisions among genuine types of different retinal bipolar neurons
- Achieved a comprehensive molecular classification of neurons
- Used Louvian-Jaccard and infomapping to cluster and differentiate different cell and gene types

COURSES

Design and Analysis of Algorithm
2020
Quantitative Methods for Business
2021
JavaScript - The Complete Guide
2021

Advanced Data Structure
2020
Measurements, Statistics, and
Probability in Bioengineering
2020
CSS - The Complete Guide
2021