Austin D. Kim

kdaustin94@gmail.com | 925 519-0540 | https://github.com/kimx5230

EDUCATION

B.A. Computer Science, **B.A.** Biology May 2017
Macalester College, St. Paul, MN
Macalester DeWitt Wallace Scholar, National Merit Scholar
Relevant Coursework: Algorithms, Databases, Data Mining, Web Development, System Design

SKILLS

Languages: Python, Java, C++, CUDA, Bash, R, Javascript, HTML/CSS, PHP, Dart
Frameworks/Technology: Django, React, Git

EXPERIENCE

Workiva - Software Engineer August 2019 - Feb 2020
Relevant technologies: Dart, React

- Implemented an optimistic "Undo" feature to reduce calls to backend
- Contribute to code reviews to maintain high code standards
- Write unit tests with Mockito to test and maintain front-end features

National Institutes of Health - Computational Genomics Fellow July 2017 - May 2019
Relevant technologies: Java, Python, Cuda, C++, HTML, JavaScript, PHP

- Project 1: Wrote format conversion pipeline
  - Main bottleneck - an open- source tool - forced large CPU memory requirements (10GB+) and completed in an hour. Java implementation erased the memory constraints and processed the average 10GB datasets in 7 minutes.

Knights Lab - Computational Research Assistant Dec 2016 - May 2017
Relevant technologies: Python, R, Selenium WebDriver, PhantomJS

- Research led to two co-authorships in *Cell* and *Cell Host & Microbe*, journals with the highest impact factors in the field of biology
- Wrote automated web crawler pipeline in Python for 6 months of diet data.
  - Open source library converted data formats in 5 hours. My R implementation reduced processing time from several hours to less than 10 seconds

PROJECTS

- **Unnamed** (*Python):* Internal web monitoring application to visualize search logs for the National Library of Medicine. Used FuzzyWuzzy and xlrd for parsing.
- **ZombieZapper** (*Django, Angular, Jquery*): Crowdsourced web application for breaking habit cycles. Learned AngularJS and Jquery for front-end and Django for a RESTful API backend.