

# ERICA KONG

 waikeikong@berkeley.edu  <http://ekwkk.github.io/>  415-646-6727

## EDUCATION

---

University of California, Berkeley

B.A. Computer Science & Data Science, 2021

Relevant Coursework: Computer Security, Probability for Data Science, Databases, Operating Systems, Techniques of Data Science, Efficient Algorithms, Artificial Intelligence, Discrete Math & Probability, Data Structures & Algorithms, Computer Architecture

## EXPERIENCE

---

Vimeo, *New York, New York*

Software Engineer Intern, Jun - Aug 2019

- Automate code refactoring for 70k+ JavaScript and Typescript files by writing a custom codemod package and command line interface for deployment stage using Typescript & Node.js
- Improve user accessibility by implementing reusable focus outlines on UI components using Typescript, React, React Hooks, Styled Components, perform 100+ unit tests using Jest library to ensure code quality check

CodeBase, *Berkeley, California*

Full Stack Software + Data Developer, Jan 2018 - May 2019

- (Spring 2019) Suggested combinable fields in 100k JSON objects by conducting data analysis using Python to extract schema references and perform Jaccard index, displayed 500MB of metadata efficiently and cut down initially site load time by 300% using React.js, Django, MongoDB and deployed on Heroku
- (Fall 2018) Enabled scientists to quickly visualize DNA sequences by establishing API endpoints for 10k AVRO files using Django and implementing React app to dynamically prompt visualization

## SKILLS

---

- Fluent in Java, Python, JavaScript, React.js, Django, HTML/CSS, Git, Typescript, C, SQL
- Proficient with Go, AWS, Node.js, Heroku, iOS dev, C++, Ruby on Rails, Linux, Google Cloud API, RESTful, Webpack

## ADDITIONAL EXPERIENCE

---

CodeBase, *Berkeley, California*

Technical Project Manager - Backend, GraphQL, Typescript, React Native, Jun 2019 - present

- Scope 100+ companies, design a detailed 5 month work timeline and tech stack for six software developers on the team
- Conduct code reviews and provide feedback for developers' code QA

UC Berkeley EECS Department, *Berkeley, California*

Undergraduate Student Instructor: Computer Programs (Python) + Data Structures (Java); rating 4.56/5, Jun 2018 - Jan 2020

- Taught 90-minute sections and lab for 25+ college students, wrote exam questions and led exam review sessions for 1.6k students

## LEADERSHIP & AWARDS

---

Wave Makers @ Berkeley - *VP of Finance*, TeenTechSF Civic Hackathon - *Semifinalist (2015) 2nd Place (2016)*, ChimeHack Hackathon 2015 - *Citizenship Award*, ANova - *CS Education - Curriculum developer*, Society of Women Engineers - *Outreach volunteer mentor*, Cantonese DeCal - *Instructor*

## RELEVANT PROJECTS

---

Blossom, Google Cloud API, JavaScript, Java, HTML/CSS, Google CodeU Program

- Optimized initial load time by 5 seconds by implementing pagination, performed user OAuth using Datastore in Cloud API

Vimeo Floor Navigation, Map Navigation Application, JavaScript, REST server

- Rasterized images to create maps of Vimeo, implemented search function to support 100+ location points
- Created REST server API endpoints of navigation from Point A to Point B (A\* algorithm), parsed and extracted sheet data into reusable dictionary format using Google Sheets API, set up a Slack bot to display an image of query path