

NEHA DABKE

nehadabke@berkeley.edu // 510.862.7865 // nehadabke.github.io // berkeley, ca

EDUCATION

University of California, Berkeley

B.A. Computer Science

B.A. Cognitive Science, *emphasis in Linguistics*

Graduating May 2020

Coursework

Datastructures • Linguistics • Discrete Mathematics

Probability theory • Data Science • Neuroscience

Efficient Algorithms • Calculus I, II

SKILLS

Languages

Java • Python • HTML • CSS • Javascript • SQL

• MATLAB • C++ • Node.js

Frameworks/Tools

TestNG • JUnit • Git • MySQL • NodeJS • Selenium

Jenkins • Firebase • D3 • Adobe Illustrator

• Adobe Photoshop • Adobe XD • Sketch

PROJECTS

Linguistic Color Mapping and Art | Fall 2016

- Created data visualizations of color term data across 110 languages and 12 regions to explore the connection between language and art using Python data science libraries

- Engineered python scripts to clean data, isolate features of data set, and synthesize language results with art features

| Python • Jupyter Notebooks

Kinetic Math | Fall 2017

- Led a team of 5 designers and engineers create a math teaching tool for 3rd grade students in conjunction with the UC Berkeley School of Education

- Engineered 2 hardware prototypes of an arduino light interface; programed front-end & back-end using C++

| Arduino • C++ • Prototyping

Qirkat | Fall 2017

- Developed a textual interface with Java and command line, multiplayer gameplay for the checkers-like game, Qirkat

- Implemented a predictive model using alpha-beta pruning to create an automated player

| Java • Git

EXPERIENCE

CyberCube Analytics | Engineering Intern

May 2018 - Present

- Developed end-to-end API testing using testNG and JUnit to collect data and validate back-end models
- Performed QA on company's cyber risk analysis software
- Recommended updated data metric & visualization scheme of cyber risk visualization product to improve the accessibility of the company's UI to the VP of Engineering

Berkeley Art Museum & Pacific Film Archive | Developer

September 2018 - Present

- Created an interactive web application to enhance and contextualize the museum's exhibits
- Iteratively developed wireframes using Adobe XD
- App is currently in development using Firebase, JS, HTML
- Web application set to deploy in early 2019, with 7000+ expected users.

eCard.io | Technical Project Manager, Developer

January 2018 - May 2018

- Led a team of 5 undergraduates prototype a stethoscope diagnosing Rheumatic Heart Disease in developing countries
- Researched and built a classification algorithm for aural data collected by stethoscope using Python
- Presented working prototype at a showcase of 100+ people.

UC Berkeley Computational Cog. Science Lab | Research and Software Developer Assistant

May 2017 - February 2018

- Designed and debugged features for the "Wordful" app using Node.js, Firebase, and Ionic3 to improve user flow
- Created a semantic relation visualization functionality for app's front-end interface using Word2Vec and D3
- Deployed working QA Testing prototypes to 20 families collecting language acquisition rates across socioeconomic borders

UC Berkeley College of Engineering | Teaching Assistant

January 2017-May 2018

- Developed course materials on Python Jupyter notebooks on cognitive data analysis for 50+ students.
- Presented implementation of Python data analysis tools to 50+ students.