Eric Leong

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EDUCATION

U.C. BERKELEY
BA in Computer Science
Expected May 2021 | Berkeley, CA
Cum. GPA: 3.91 / 4.0
Major GPA: 3.85 / 4.0
Honors: Dean's List

WESTMOOR HIGH
Graduated May 2017 | Daly City, CA
UW. GPA: 3.98 / 4.0
Honors: Salutatorian

COURSEWORK

UNDERGRADUATE
Web Design
CS61A: Struc.+ Interp. of Comp. Programs
CS61B: Data Structures
CS70: Discrete Math and Probability
EE16A: Information Devices and Systems I
CS199: Supervised Indep. Study
UGIS 192: Supervised Research
MITx 6.00x: Intro to Programming

SKILLS

PROGRAMMING
Languages:
Java • Python • HTML/CSS
Javascript (ES6, JSON, React, Node.js)
Lisp • SQL
Technologies:
LaTeX • Lisp • Android • Git
NIPY • PostgreSQL • Unix

LINKS

Github:// **mageofboy**
LinkedIn:// **eric-leong**

EXPERIENCE

IEEE BERKELEY | Web Design Team Director
January 2018 – Present | Berkeley, CA
- Manage a committee that develops and updates our organization's website. Initiated new projects that implement new features intended to promote our club and resources. Also manage the organization's start up fair website.
- Used React.js as the main library for the front end of the website, JSON and Node.js for the backend.
- Developed front-end features that improve visibility of information, such as an automatic events calendar, and working on the redesign of the mobile website.

RESEARCH

WILLIAMS LAB | Undergraduate Research Assistant
September 2018 - Present | Berkeley, CA
- Research on the computational approaches to test for molecular convergence in species of animals that express programmed dormancy.
- Assisting Professors Williams and Sudmant with the development of the algorithmic model necessary to test for molecular convergence.
- Created a shell script that pulls data from a genome database to find orthologous gene mappings between species

BERKELEY ULAB | Undergraduate Researcher
October 2017 - May 2018 | Berkeley, CA
- Guided by mentors, conducted independent research on the symptoms and clinical outcomes of brain atrophy in multiple sclerosis and whether the severity of symptoms can be predicted through analytical models.
- Utilized neuroimaging programming tools, such as NIPY, to create a script that approximates the volume of the brain from MRI images. Based on the Brain Parenchymal Fraction and is written in Python.

PROJECTS

NAME TAG Team Project
- A social networking Android app developed at Cal Hacks.
- Developed the backend SQLite database to store contact information. Helped implement, using Google Maps APi, a location tracker to remember where contacts were formed.

QUOTEBOOK Personal Project
- An Android app that stores random quotes in a text file. User can switch between quotes and also add additional quotes. A special audio is played whenever a certain keyword appears
- Used Java, Android SDK, XML.

SCHEME LANGUAGE INTERPRETER CS61A Project
- A scheme language interpreter with nearly all the functionalities of Scheme language, including basic operations (functions, lambdas, variables) and special forms (let, quotes, mu).
- Written in Python. Voted 2nd place in class competition for best usage of the feature, scheme draw.