

Edward Butler

<http://edwardbutler.io> | edwardbutler@rice.edu | 214.907.4829

EDUCATION

RICE UNIVERSITY

B.S., COMPUTER SCIENCE

Expected May 2020

DEV BOOTCAMP

FULL-STACK WEB DEVELOPMENT

San Francisco, CA

SKILLS

Full-Stack Web Development
JavaScript (i.e. React, Node, jQuery)
iOS (i.e. Obj-C, ReactNative)
Python (i.e. Pandas, Scikit-learn)
Java
Testing

COURSEWORK

UNDERGRADUATE

COMP 310: Adv. OOP
COMP 182: Algorithms
COMP 142: Computational Thinking
ELEC 220: Computer Engineering
COMP 330: Data Science
COMP 215: Functional Design
MATH 212: Multivariable Calculus
COMP 322: Parallel Programming
STAT 310: Probability and Statistics
COMP 321: Systems

INDEPENDENT

CS50: Computer Science 1, Harvard

ACHIEVEMENTS

HackRice Alumni Choice 2017
ACT Score: 34/36 2016

EXPERIENCE

MICROSOFT | SOFTWARE ENGINEER INTERN

Summer 2018 | Redmond, WA

- Designed and implemented an end-to-end feature for the Skype mobile and desktop apps (using TypeScript and ReactXP)
- Created unit tests in Jasmine to test robustness of the designed service client
- Integrated accessibility support for visually impaired users

BAYLOR COLLEGE OF MEDICINE | DATA SCIENCE INTERN

Summer 2017 | Houston, TX

- Analyzed massive epigenomic data sets using Python data science libraries (see skills)
- Designed and implemented a parallelized algorithm to characterize 200bp regions across the mouse and human epigenomes
- Managed computationally-intensive tasks on a Red Hat Linux cluster

PROJECTS

TAX SNIPE WEB APP (BETA) | FREELANCE DEVELOPER

Summer 2017

- Designed, planned, and deployed a sales tax manager for Amazon merchants
- Iteratively integrated feedback from client and exceeded client expectations
- Developed and implemented an algorithm to parse and persist sales CSV data on backend
- Set up login system, which utilizes regular expressions to validate email and password
- Created dashboard to display data elegantly with colorful and animated graphs (using Chart.js)

RICE MARKETPLACE WEB APP (ALPHA) | INDEPENDENT DEVELOPER

Summer 2017

- Created a peer-to-peer marketplace for Rice students, using MERN stack
- Designed and implemented schema for document-based database (i.e. MongoDB)

COPPELL STUDENT MEDIA IOS APP | INDEPENDENT DEVELOPER

Summer 2014

- Coordinated a team of 10 high school students to build a news reader app for our school's news group
- Incorporated video, digital newspaper, RSS parsing into app (downloaded 3,000+ times)
- Converted old Obj-C version to a React Native one, making it accessible to Android users

RANDOM NUMGENERATOR IOS APP | INDEPENDENT DEVELOPER

Fall 2011

- Optimized generation of giant sets of numbers using Apple's GCD multi-threading library
- Shipped to over 150,000 users and earned over \$7,000 in revenue