JUSTIN HE

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EXPERIENCE

Bloomberg L.P.

Software Engineering Intern Summer 2018

- · Developed models to price complex financial deals using machine learning algorithms and data processing techniques (feature selection, regression analysis)
- · Automated the optimization of pricing models to improve speed and accuracy using machine learning techniques (hyper-parameter tuning)

Fae Interactive

Software Engineering Intern Summer 2017

- · Designed, developed, and tested responsive iOS UIs using Swift and Xcode
- · Worked and collaborated on the Fae Map's app's location-based services to provide more seamless and easy-to-use user experience

USC Department of Computer Science

Course Producer Fall 2017, Spring 2018

- · Teaching assistant for CSCI 103: Introduction to Programming
- · Mentored students on fundamental programming concepts (functions, data structures, object oriented programming)

Memorial Sloan Kettering Cancer Center

Research Intern Summers 2014, 2015

- · Automated visulaization of data sets using R, serving 30+ lab researchers
- \cdot Conducted independent research on Acute Myleoid Leukemia, assessed the disese's dependency on specific proteins

PERSONAL PROJECTS

Tommy Bot (https://www.facebook.com/usctommybot/)
Co-founder and Lead Developer September 2016 - Present

- \cdot A chatbot on Facebook Messenger that answers hundreds of students questions about USC daily, with 55,000 total queries answered
- Manage, design, and develop all core aspects of the technology: application architecture, information aggregation, natural language processing and more

Duelr (duelr.herokuapp.com)

Developer January 2016

- · With a hackathon team at PennApps XIII, created a 3D multiplayer game that transforms players' phones into virtual swords, winning the Plaid Prize award
- \cdot Created front-end project components: 3D rendering, interactions, and connections using HTML, CSS, and Javascript

LEADERSHIP

Lavalab (usclavalab.org)

Director of Development May 2017 - May 2018

- \cdot Assisted development of a comprehensive product building curriculum, with a focus on the developmental aspects for USC's premier product incubator
- · Hosted internal and external workshops on product development skills
- · Created, maintained, and updated the website and additional software

EDUCATION

University of Southern California Class of 2020 B.S Computer Science, Philosophy Minor, 3.57 GPA

SKILLS

Languages

Python, Swift, C++, HTML, CSS, Javascript, R

Frameworks & Tools

React, EJS, Node.js, jQuery, SQL, MongoDB, Heroku, Digital Ocean, AWS, Git

Software

Photoshop, Illustrator, InDesign, Lightroom, Premiere (Adobe)

AWARDS

USC Iovine and Young Innovation Prize (2017) \$10,000 for Tommy Bot

USC Dean's List Scholar (Spring 2017, Fall 2017, Spring 2018)

PennApps XIII Plaid Prize Award (2016)

Innovative Design for Duelr

LocalHackDayNY Best Overall Hack (2015)

TigerHacks 2nd Place Award (2015)

INTERESTS

Entrepreneurship Computer Security Data Analytics Hip-Hop Dance (Chaotic 3) Photography, Videography Swimming, Water Polo