BRYAN C. TONG

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github.com/bbtong
btong.me

EDUCATION

University of California, Berkeley *Aug 2015 – May 2019*
Bachelor of Arts, Computer Science
Focus: Spatial Computing, Cognitive Neuroscience

EXPERIENCE

Pivotal Software *June 2019 - Present*
Associate Software Engineer San Francisco, CA
- Developed features in R&D tools to automate tasks via CI/CD, saving $21M annually
- Created bot spanning multiple APIs to automate graceful shutdown behavior during network and power outages, reducing platform downtime and need for paging
- Contributed open-source code to BOSH, Cloud Foundry to improve handling of expiring certificates, assisting in easier orchestration of Cloud Foundry applications

Augmented Cognition Lab / Robotics Learning Lab *May 2018 – Aug 2018*
Software Engineer / Researcher Berkeley, CA
- Directed R&D and engineers to implement MVPs with **Unity, C#, Go, Ruby, ROS,** in order to accelerate development on tele-operated robotics piloted via HTC Vive
- Contributed full-stack features including **backend APIs** and **2D & VR UI,** enabling visual interfacing through HMD and traditional displays over wireless protocols

Nokia Bell Labs *May 2017 – Aug 2017*
Software Engineering Intern Sunnyvale, CA
- Developed mobile augmented reality applications with **ARKit (day 0), Electron, React.js** to project AR room-scale tele-conferencing avatars and indoor navigation
- Co-developed web client in **React, Redux JS**, d3, **Electron, Socket.io, Docker** to rapidly prototype a universal-integration chat and productivity application

PROJECTS

Whitespace AR *Aug 2017 – June 2018*
AR / VR Software Engineer
- Developed AR algorithm related to vertical wall tracking in ARKit beta / Xcode 10
- Implemented **light-normalized contrast detection** to improve low-light tracking
- Integrated iOS native app with **Shopify SDK, Firebase** with **Apple Pay** checkout

LEADERSHIP

Virtual Reality at Berkeley *Aug 2016 – May 2019*
President (Prior: Project Lead, 2016 – 2018) Berkeley, CA
- Scaled to 120+ developers, 400+ members; grew revenue and donations 1,000%
- Organized VXPC and SodaHacks, Berkeley's largest VR conference and hackathon
- Established partnerships with **Augmented Cognition Lab** under Dr. Allen Yang, **and Robotic Learning Lab** under Dr. Pieter Abbeel, for VR robotic teleoperation
- vr.berkeley.edu | vr.berkeley.edu/sodahacks

ADDITIONAL

CS 370 Head TA & Co-Instructor *Fall 2018 – Spring 2019*
ASUC Deputy Director of Entrepreneurship & Technology *Fall 2018*
CS 61A Course Staff, CS 61C Course Staff *Spring 2018*

US Citizen