

BRYAN C. TONG

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github.com/bbtong
btong.me

EDUCATION

University of California, Berkeley

Bachelor of Arts, Computer Science

Focus: Spatial Computing, Cognitive Neuroscience

Aug 2015 – May 2019

EXPERIENCE

Pivotal Software, Inc.

Associate Software Engineer

June 2019 - Present

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 CLIs for VM interactions
- Deployed and maintained Kubernetes (k8s) on GCP, Azure Stack, OpenStack clusters

Augmented Cognition Lab / Robotics Learning Lab

Software Engineer / Researcher

May 2018 – Aug 2018

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

Software Engineering Intern

May 2017 – Aug 2017

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

AR / VR Software Engineer

Aug 2017 – June 2018

- 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

President (Prior: Project Lead, 2016 – 2018)

Aug 2016 – May 2019

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

ASUC Deputy Director of Entrepreneurship & Technology

CS 61A Course Staff, CS 61C Course Staff

Fall 2018 – Spring 2019

Fall 2018

Spring 2018

US Citizen