

Kevin Hu

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education

University of California, Berkeley

2018 – 2022

B.S. Electrical Engineering and Computer Science

- GPA: 3.93 / Technical: 4.0
- Regents' and Chancellor's Scholar

experience

ASUC Office of the CTO

Sep 2018 – Present

iOS Developer

- Developer on team for Berkeley Mobile, the official campus mobile application with over 10,000 users
- Migrated app to Firebase to utilize caching features to cut costs associated with handling ~1,000 monthly Heroku queries

HKN

May 2019 – Present

Student Relations Assistant Officer

- Plan and run social events for members of the Berkeley EE/CS community
- Other student services (exam cookies, apparel, etc.)

Qualcomm

Jul 2019 – Aug 2019

GPU Intern

- Performed competitive analysis of Metal 2 tile shaders in Forward+ renderers to aid future GPU design
- Optimized internal C++ OpenCL library and kernels for more efficient execution of low-level applications on IoT devices

Neuroverse

May 2016 – Apr 2018

Software Engineering Intern

- Developed iOS apps and frameworks using Xcode and Objective-C for migraine and EEG research
- Utilized OpenGL ES to render and orient .obj 3D models to real-time gyroscope data
- Streamlined backend data collection by integrating Apache's Avro data serialization library to significantly reduce dataset sizes and establish backwards compatibility for older schemas

projects

Speech Coach

Jul 2019

github.com/CoreeyWho/whitespace

- Developed mobile app using Bose AR glasses and the Bose AR SDK for real-time feedback on presentation metrics
- Implemented Apple Speech API and analyzes accelerometer + gyroscope data from the AR glasses to recognize excessive sway, verbal fillers, pacing, eye contact, etc.

CS 170 Guavabot Project

Apr 2019

- Placed 8th of over 300 teams in developing an algorithm to locate and return a graph's lost "Guavabots" in the shortest time

OCReceipt

Nov 2018

github.com/KevWho/OCRcpt

- Developed an iOS app for OCR receipt recognition and bill splitting using Xcode, Swift, Python, and the Google Vision API for the 36-hour Calhacks Hackathon
- Implemented the OCR service using Python and Google Vision API to clean image data, recognize receipt items, and send HTTP requests between the app and the cloud

Character RNN

Nov 2017 – May 2018

- Trained LSTM recurrent neural network using Wolfram for character-wise text modeling to generate prose based on works by Jane Austen

VodaFlow

Jul 2017 – Aug 2017

- Deployed Node.js API and website through AWS EC2 instances
- Developed mobile app which used Apple's Core Bluetooth to control a valve system

skills

Languages: C, Objective-C, C++, Swift, Python, Java, JavaScript, HTML/CSS, Wolfram

Libraries/Platforms: OpenCL, Metal, Vulkan, Node.js, Bootstrap, MongoDB, Cocoa Touch, Xcode, Visual Studio, AWS, git, Linux