KEVIN LIN

PERSONAL kevinlin.info
GITHUB /LINKIWI

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Education

2014 – **RICE UNIVERSITY**, HOUSTON, TX
ELECTRICAL AND COMPUTER ENGINEERING + COMPUTER SCIENCE
3.85 GPA | GRADUATING MAY 2018

Fund Electrical Engineering I and II, Fund Computer Engineering, Signals and Systems, Random Signals, Digital Logic Design, Electronic Materials and Quantum Devices, Intro to Physical Electronics, Intro to Neuroengineering, Computational Thinking, Algorithmic Thinking, Intro to Program Design
In progress: Computer Vision, Implementation of Digital Systems, Intro to Computing Systems, Parallel Programming

Experience

SUMMER 2016 **UBER**, SAN FRANCISCO, CA
SOFTWARE ENGINEER INTERN | PENDING: STARTING NEXT SUMMER

SUMMER 2015 **YELP**, SAN FRANCISCO, CA
SOFTWARE ENGINEER INTERN | CONSUMER WEB TEAM

Designed and built an email campaign system to increase reviews from users who order off Yelp Platform.
As a side project, developed an internal command line interface for developers to order coffee from the Yelp cafe.
Redesigned and implemented a new user interface for Yelp's business photo uploader.

Projects

2015 **EDGE-BASED MOTION DETECTION AND FACIAL RECOGNITION WITH NVIDIA CUDA**
GPU-PARALLELIZED REAL-TIME 2D SIGNAL PROCESSING | www.github.com/LINKIWI/cuda-computer-vision

An exploration of parallelized GPU computation in C and GPU-CPU speedup of common computer vision algorithms. Wrote custom GPU code for Sobel edge detection, an edge difference density-based motion detection algorithm, and HAAR feature-based facial recognition with the NVIDIA CUDA framework, achieving speedups as high as 10x.
The full paper is available at kl38.web.rice.edu/cuda-computer-vision.pdf

2015 **SIGNAUTH**, HACK THE PLANET, MOUNTAIN VIEW, CA
WEB, SENSEL | www.github.com/LINKIWI/sign-auth

Featured on the official Sensel developers website: www.sensel.com/developers
Designed and implemented a method of two-factor authenticating web applications by validating raw multi-point pressure, position, and velocity inputs from the Sensel Morph using real-time custom algorithms.

2015 **SECURETAP**, HACK RICE, HOUSTON, TX – BEST HARDWARE HACK
ANDROID, WEB, ARDUINO | www.github.com/LINKIWI/secure-tap

Built an Arduino-controlled RFID card authentication system, powered by a Flask web app and managed remotely with an Android app that controls card authentication access and user accounts.

2015 **MIND VERSUS MIGHT**, HACK PRINCETON, PRINCETON, NJ – BEST USE OF MUSE API
ANDROID, ARDUINO, MUSE HEADBAND | www.github.com/Abhipray/MindVsMuscle

Designed and built a robotic arm-wrestling game controlled by the player's brain waves, as read by a Muse headband. Raw EEG data is sent via Bluetooth to an Android app, which processes the information and remotely sends data to an Arduino controlling a motor on a custom-built arm-wrestling mechanism.

2014 **MOBILE MANAGER FOR CLOUDFLARE**
ANDROID | www.cloudflaremanager.com | www.github.com/LINKIWI/mobile-manager-for-cloudflare

Developed and actively improving a native Android mobile application providing website administrators an interface for configuring CloudFlare's content delivery network options for their domains. 5000+ downloads.

Honors

2014 School of Engineering full tuition scholarship
2014 National Merit Scholar