KEVIN LIN

PERSONAL kevinlin.info
GITHUB /LINKIWI

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Education

2014 – 2018

RICE UNIVERSITY, HOUSTON, TX
ELECTRICAL AND COMPUTER ENGINEERING + COMPUTER SCIENCE
3.82 GPA | SOPHOMORE | SCHOOL OF ENGINEERING FULL TUITION SCHOLARSHIP

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 | 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

2016

MODERN PASTE
WEB | www.modernpaste.com | www.github.com/LINKIWI/modern-paste

Developed and currently maintaining a feature-rich, open-source Pastebin alternative for self-hosted deployments. Created a Python-based backend infrastructure with Flask and MySQL (tested with a Travis CI continuous integration system) and a robust frontend interface with jQuery, Google Closure library and compiler, Sass, and others.

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

Wrote parallelized GPU code with the NVIDIA CUDA framework for Sobel edge detection, an edge difference density-based motion detection algorithm, and HAAR feature-based facial recognition, achieving GPU-CPU speedups of 10x. The full paper is available at kevinlin.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.