CK

Chris Kevin Ong
ongck@mit.edu
ckskylight.com
857 - 259 - 8885

EDUCATION

Massachusetts Institute of Technology

Graduating June 2016

Bachelor of Science in Electrical Engineering and Computer Science

Relevant Coursework (GPA 4.4/5.0)
Advanced Computer Vision
Advanced Computational Photography
UI/UX Design and Development
Computer Systems Engineering
Introduction to Algorithms
Digital Electronics Laboratory
Advanced Game Studio
Circuits and Electronics
Introduction to Machine Learning
Software Engineering
Computation Structures

SKILLS

LANGUAGES
Python, Java, C++, JavaScript, HTML/CSS, Verilog

TOOLS
Git, Bash, Zsh, Vim, Re

WEB DEVELOPMENT
Bootstrap, D3, MoPub, jQuery, Node.js

FRAMEWORKS
Android, OpenFrameworks, Kivy

CREATIVE SOFTWARE
Photoshop, Illustrator, Premiere Pro, InDesign, Lightroom, Aperture

PROJECTS

VX Vaux Audio
Vocal Harmonizer and Sonic Visualizer
Jan 2015
May 2015

Developed a real-time vocal harmonizer that produces predetermined or improvised chords using gesture control

Researched frequency and time domain pitch shifting algorithms

Implemented the Pitch Synchronous Overlap and Add (PSOLA) pitch shifting algorithm in C++

TableMaestro
Restaurant Seating and Reservation
Jan 2015
May 2015

UI/UX Final Project

Designed and developed a front-end web app that helps restaurants seat customers more efficiently

Conducted market research by speaking to restaurant owners in the Cambridge area

Performed extensive user testing and rapid prototyping

ACTIVITIES

Chorallaries A Cappella
Publicity Manager and Arranger
Aug 2012 - Present

Redesigned and overhauled the group website's content and aesthetic

Planned and executed an unprecedented auditions marketing campaign – handled logistics and produced a 2' x 8' banner, business cards and callback booklets

Greatly shaped the group's identity, image and branding

MIT Chamber Chorus
Soloist
Aug 2014 - May 2015

Performed in Griffelkin Opera
Performed early music choral works

Hobby Photography
2006 - Present

Compiled and performed post-processing on an extensive library of travel photos using Adobe Lightroom and hosted on Flickr

Executed photo shoots for Chorallaries concert publicity

EXPERIENCE

A9.com
Software Development Engineer Intern
May 2015
Aug 2015

Pioneered and completed the development of an Amazon Native Ads SDK for Android

Processed data from Amazon's advertising bid request Hive table to create demographic insight for publishers

Took over an Automated Ad Creative Review project and pushed it to production in 2 weeks, drastically increasing review throughput compared to manual review

Kopin Corporation
Software Engineering and Design Intern
June 2014
Aug 2014

Designed and developed an intuitive menu interface for smart glasses as sole in-house software developer

Prototyped software and hardware for a smart bike helmet that interfaces with bike sensors and heartrate monitors to provide realtime statistics to cyclists

Project directly resulted in the launch of the new Solos Wearables Performance Eyewear brand

Kubra.io
Cofounder, Designer, Software Lead
Gesture control ring for wearable devices
Jan 2014
May 2014

Won Audience Choice at the MIT 100K Competition among 200 teams and interviewed with Y Combinator

Programmed a custom-built microcontroller equipped with nine-axis IMU for gesture recognition

Created ring housing designs and renders on Autodesk Inventor and Maya

Designed and developed the company website and logo

MIT Media Lab
Undergraduate Researcher
100 maps 100 cities - Social Computing Group
Aug 2013
Jan 2014

Created a Google Streetview crawler to download an array of city images

Used OpenCV to determine the area of sky in these images and the percentage of greenery surrounding the sky

Developed a map visualization of results using D3.js and OpenStreetMaps

IBM Corporation
Software Engineer Intern
June 2013
Aug 2013

Single-handedly developed a ride sharing web app for travelling IBM employees

Used and updated a travel database using mySQL