DEVANSH KUKREJA

Algorithms, Mobile Development, & Design

Website devanshk.xyz

Contact

dkukreja@andrew.cmu.edu +1 425 985 4874



EDUCATION

CARNEGIE MELLON UNIVERSITY

GPA: 3.66

BS, COMPUTER SCIENCE & INFORMATION SYSTEMS: May 2019

Dean's List

TA for Mobile and IoT Computing

- · Graduate and Upperclassmen level course
- · Delivered lectures, hosted office hours, and graded homework

Relevant Coursework:

- Principles of Imperative Computation Spring 2016
- · Concepts of Mathematics Summer 2016
- Fundamentals of Computer Science Fall 2015



RELEVANT PROJECTS

PULSE

Multiplayer Audio-Based Game that accepts any song as input

- · Won 2nd Overall at 15-112 Term Project Showcase
- Programmed algorithm to detect beats and their energy using data structures for efficient computation
- Implemented Fast Fourier Transform to create equalizer

AFIS

Automated Fingerprint Identification System

- 1st in Senior Division at Washington State Science Fair & appeared in King County AFIS magazine
- Programmed image analysis algorithms to detect minutiae points in given prints and compare them for similarity

AWARE

Detect Motion Gestures and Customize Reactions

- Developed Android app available in the Play Store: https://goo.gl/Eqm3iM
- Designed algorithms to detect hand waves, shakes, being pulled out of pocket, and being thrown into the air based on sensor data

PRANTLS

Mock Redesign for a local bakery

- · Website is live and viewable online: prantlsbakery.xyz
- Designed wireframes and developed from scratch with HTML, CSS, and lavascript
- $\boldsymbol{\cdot}$ Developed without using any CSS frameworks

DUCO

Tinder for Art Museums

- · Built at the Carnegie Museum Of Art's data hackathon
- Developed Android app that processes ,json dataset of artwork and implements a card-swipe based UI
- · Developed backend algorithm to customize artwork suggested to user

SOUNDHOP

Synchronized Music Across Devices

Finalist at AngelHack Seattle
 Developed Android app that links with Firebase to play and pause
 music simultaneously across devices running the app



WORK EXPERIENCE

STEAM FOR KIDS

Co-Founder, Teacher, and Designer - Summer 2015

- Taught basic programming algorithms and Scratch to elementary school students
- · Coordinated logistics for transport and supplies
- · Designed logo and PR material

AEROJET ROCKETDYNE

Engine Test Intern - Spring 2015

- · Planned test operations for a liquid-fueled rocket engine
- · Enacted cold-fire test to determine valve resistance
- · Conducted hot-fire test to measure actual thrust
- $\boldsymbol{\cdot}$ Designed logo for internship team

VOICEBOX TECHNOLOGIES

Mobile Development Intern - Summer 2014

- Integrated the voice recognition company's demo app with an unsupported SDK
- · Started from scratch; learned Android development



CODING TECHNOLOGIES

EXPERIENCED	Python HTML	Android CS	 C#	Firebase Javascript
PROFICIENT	 R	Lua	C0	С



HARDWARE EXPERIENCE

Circuits	0 0 0
Arduino	•
Raspberry Pi	•
Spark Core	•



DESIGN SKILLS

EXPERIENCED	Photoshop	Illustr	ator	InDesign	
PROFICIENT	TinkerCad	Inventor	3dsMax	Sketch	



PRE-COLLEGE HONORS

Eagle Scout Associate Student Body President National Honor Society President



HOBBIES AND ACTIVITIES



Dance Team



Robotics Club



Cooking



Working Out

