DEVANSH KUKREJA

Algorithms, Mobile Development, & Design

Website
devanshk.xyz

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

EDUCATION

CARNEGIE MELLON UNIVERSITY   GPA: 3.63

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 Javascript
- 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
- 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	Android	Java	C#	Firebase
	HTML		CSS		Javascript
PROFICIENT	R	Lua		C0	C

HARDWARE EXPERIENCE

Circuits	◉ ◉ ◉
Arduino	◉ ◉
Raspberry Pi	◉ ◉
Spark Core	◉

DESIGN SKILLS

EXPERIENCED	Photoshop	Illustrator	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

Competitive Smash