

# DARPUN KOHLI

## CONTACT

**Address:** 203 Erin Dr,  
Cranberry Township, PA 16066

**Phone:** (724) 713-1128

**Email:** dkohli1@jh.edu

## LINKS

Portfolio

<http://darpunkohli.com>

LinkedIn

<https://www.linkedin.com/in/darpun-kohli/>

YouTube

<http://bit.ly/darpun-kohli-yt>

## EDUCATION

**Johns Hopkins University** - Baltimore, MD  
Master of Science: Computer Science,  
06/2020 to 08/2023

**University of Pittsburgh** - Pittsburgh, PA  
Bachelor of Science: Computer Science,  
08/2016 to 04/2020

## SKILLS

### Front End

HTML / CSS  
Javascript / npm  
React Native  
Flask  
Ember.js  
Bootstrap

### Back End

Java  
Python / Anaconda / Pythonista  
SQL Server  
Spring Boot REST APIs

### Other

Automation Anywhere (RPA)  
Kore.ai (NLP)  
Arduino  
OpenCV  
JUnit Automated Testing  
SonarQube  
Git  
Jira / Azure DevOps  
Bitbucket / Stash

## WORK HISTORY

**Software Developer**, 08/2021 to Present

**PNC Bank** - Pittsburgh, PA

- Currently developing, enhancing, and maintaining several AutomationAnywhere bots used in the Cyber Security division.

**Technology Development Program Associate**, 08/2020 to 08/2021

**PNC Bank** - Pittsburgh, PA

- Security: Automated the process of collecting video footage from our branch cameras for fraud investigators using AutomationAnywhere. Also implemented facial detection and license plate recognition with Python and OpenCV to eliminate time-intensive, repetitive tasks.
- Intelligent Automation: Built a virtual assistant with Kore.ai to help customer care agents efficiently remove debit card hot codes for customers.
- DevOps: Built a new set of API endpoints for mobile application testing from the ground up using Java and Spring Boot.

**Web Development Intern / Contractor**, 09/2018 to Present

**Aeronics** - Pittsburgh, PA

- Designed an entirely new website from scratch for award-winning Pitt start-up, Aeronics. The new website currently increases awareness of the brand and attracts new shareholders.
- Offered web development contractor position after internship to make any changes or additions to the site.

**UI Engineering Intern**, 06/2019 to 08/2019

**American Eagle Outfitters, Inc** - Pittsburgh, PA

- Worked alongside CMS team to implement a scrollable guide of models in different clothing sizes into our Ember.js application. This guide allows AE customers to make better online shopping decisions to ultimately decrease the number of returns on our website.

**Computer Vision Software Engineer**, 01/2019 to 08/2019

**Pitt Robotics and Automation Society** - Pittsburgh, PA

- Assisted in the development of an autonomous racecar for the Formula Student Germany competition in the summer of 2021. Specialized in perception and localization in relation to cones and other objects.

**Information Technology Intern (Front-End)**, 05/2018 to 12/2018

**Arconic** - Pittsburgh, PA

- Helped to incorporate multilingual capabilities for global websites and constructed a new webpage for Arconic Europe for locating distributors on the continent. Utilized HTML, CSS, JavaScript, jQuery, ASP.NET, SQL, and Google Maps API.

## INDIVIDUAL PROJECTS

- Currently working on a Raspberry Pi IoT device which can be installed in Tesla vehicles allowing users to simply knock on the front trunk to open. Hoping to implement secret knock pattern functionality as well.
- Developed GarageBuddy, an easy-to-use, mobile-friendly, web application built with Flask and Python that intelligently opens and closes your garage door based on the location and ignition status of a Ford vehicle. Project finished top 10 in Ford's 2021 Smart Vehicle Connectivity Challenge.
- Developed a mobile application which allows Tesla users to mount their iPads in the rear to give back-seat passengers the ability to control different parts of the car such as climate, front and rear trunks, charging, media, and more. Currently working to have it run on both iPads and Android tablets using React Native.
- Modified a Pre-Autopilot Tesla Model S to Level 2 Autonomy using OpenPilot.
- Designed a robot that creates custom haircare products based on a user's hair and body type. In addition, developed an IoT device to track the consumption of that hair product in a user's home. Placed 2nd out of over 200 participants in worldwide competition by Proctor and Gamble.