

# RISHI PISIPATI

Full Stack Developer  
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## EDUCATION

### CARNEGIE MELLON UNIVERSITY

PITTSBURGH, PA | AUG 2019  
School of Computer Science, HCI  
Masters in Educational Technology  
and Applied Learning Sciences  
GPA : 3.46/4

### NIIT UNIVERSITY

ALWAR, RAJASTHAN | JUL 2017  
Bachelors in Technology  
Computer Science and Engineering  
GPA : 3.25/4

## SKILLS

### PROGRAMMING

Proficient:

React • Angular • MongoDB

Experienced:

Python • Javascript • SQL

Familiar:

C# • Android • OpenCV

## INTERESTS

- Machine Learning
- Full Stack Development
- Relational Databases
- SEO
- UX Design
- Algorithm Optimization
- Design Prototyping
- Game Design

## ACHIEVEMENTS

### MERIT SCHOLARSHIPS

Carnegie Mellon University  
NIIT University

### UPMC - HACK THIS HELP KIDS

First Prize  
Smartwatch to monitor Breast Milk  
Quality for NICU Patients

### AIESEP NATIONAL PARLIAMENTARY DEBATE

Total Education in India  
First Prize, Honorary Mentions

## EXPERIENCE

### K12 INC FULL STACK DEVELOPER

Jan 2019 – August 2019 | Pittsburgh, PA

- Worked alongside K12 Inc, one of America's largest online schools to develop a platform that scaffolds optimal collaboration in an online environment for Project Based Learning (PBL) for my Capstone project at CMU.
- Researched, designed and iterated on several solution spaces to address subsets of the given problem. User testing with teachers revealed a greater need for teacher-supporting tools for PBL.
- Developed a front end tool using a MEAN stack to scaffold optimal group formation such that each student in a class was paired with the most ideal teammates in that group. The tool was designed to support manual and auto-generation of groups based on heuristic measures.

### NIIT FOUNDATION | SOFTWARE ENGINEERING - CONTRACT

Jul 2017 – Oct 2017 | Jan 2016 – Dec 2016 | Gurgaon (Remote)

- Contacted by NIIT Foundation to work on the "Hole in the Wall" initiative.
- Researched and developed facial detection modules and user management solutions using OpenCV's libraries in Python as part of my R&D project.
- Developed non-intrusive analytics system to monitor the progress of children.

### COLLARFOLK | WEB DEVELOPMENT - INTERNSHIP

Jan 2017 – June 2017 | Gurgaon, India

- Implemented a fully functional E-Commerce platform on Collarfolk's website using Wordpress, Woocommerce and Javascript. Incorporated additional custom functionality to handle inventory management and customer notification systems.
- Handled On-Page SEO and monitored page activity on Google Analytics. Reduced latency by 50% (4.6s - 2.3s) on the homepage and boosted incoming traffic by 30% in the following month through several optimizations.

## PERSONAL PROJECTS

### DONT FALL FOR IT

Java, Processing

Designed a cross platform game in Java and Processing to teach the elderly about email scams. Incorporated Bayesian Knowledge Tracing to trace their progress for each subskill associated with identifying scams.

### COLOR PRESERVATION IN VIDEO STYLE TRANSFER

Python, Tensorflow

Modified a prior repository to preserve colors during video style transfer to generate concept music videos and creative video art.

### AUTO WATERMARKER

Python, OpenCV

Designed a program that appropriately watermarks images in bulk on to ensure visibility using Gaussian Filters and a weighted average of pixels in potential location of Watermarks. Added command line functionality to adjust opacity of watermark. Currently used by Collarfolk as a watermarking tool.