

# Vivek Mhatre

SOFTWARE DEVELOPER · STUDENT

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## Education

### Georgia Institute of Technology

PROSPECTIVE COMPUTER SCIENCE MAJOR

- Specializing in Systems & Architecture and Intelligence

Atlanta, Georgia

September, 2018 - Present

### Union County Magnet High School

VOCATIONAL PRE ENGINEERING CERTIFICATION

- Graduated with Honors

Scotch Plains, New Jersey

September, 2014 - June 2018

## Experience

### Rutgers University

RESEARCH ASSISTANT

- Responsible for development of a new database entry system to track ongoing experiments.
- Conducted research in the Hybrid Micro/Nanomanufacturing Laboratory developing ionic thrusters for propulsion systems of small satellites.
- Investigated fabrication for wafer-scale arrays of hierarchical micro/nanostructures through the use of photolithography.

New Brunswick, New Jersey

May 2019 - August 2019

### MobileArq

DATABASE PROGRAMMER

- Managed databases for 40,000 families using SQL scripts.
- Created websites for various organizations including the Summit Tennis Club using a LAMP Stack and WordPress.
- Designed mockups and wireframes for a mobile application to assess otolaryngology residents at Columbia University.

Summit, New Jersey

Oct. 2014 - Sept. 2018

### Tomkin Company

BID ESTIMATOR

- Created bid estimates for numerous construction projects throughout New York and New Jersey based upon review and analysis of hundreds of Architectural, Structural, and Electrical drawings.
- Collaborated with high profile construction companies to accommodate for varying project requirements to produce accurate estimates.

Scotch Plains, New Jersey

Mar. 2017 - Sept. 2017

### NJSTEM

VOLUNTEER

- Led children through the basics of how to solder and assemble basic circuits through a program named, "Soldering Sundays".

Summit, New Jersey

Feb. 2016 - Aug. 2016

## Extracurricular Activities

### Data Analytics

PROJECTS

- Created a Fantasy Premier League tool to accurately predict player performances using the scikit-learn machine learning library in Python.
- Used R to model simple linear regression, multiple linear regression, ANOVA, MANOVA, and time series.
- Modeled local weather data using Python to view differences in weather patterns in the past decade.

### STEM Activities

CLUBS AND CODING

- Created a voice assistant to recognize toxic language and depression using machine learning in the HackNYU 2018 hackathon.
- Part of Google Code-in project, programmed with Drupal open source libraries, and collaborated with developers around the world.
- Member of the Union Model Aircraft Club and helped organize flying events.

### Maker Portfolio

SHORT FILM

- My experience with building and flying planes and drones - <https://youtu.be/dx6dBgskQnQ>

## Skills

**Software** AutoCAD, OnShape, Solidworks, Fusion 360

**Programming Languages** Python, R, Java, Javascript, MATLAB, LaTeX