**Justin Diaz**

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**EDUCATION**

***Binghamton University,*** Binghamton, NY  
Bachelor of Science in Computer Science, May 2020 GPA: 3.65

*Relevant Coursework:* Data Structures/Algorithms, Operating Systems, Obj. Oriented Programming, Computer Security, Advanced Computer Architecture, Visual Info. Processing

**SKILLS**

C++, C, Python, HTML, CSS, Bootstrap, Javascript tested Rails quality

**EXPERIENCE**

***iD Tech Camps,*** Bronxville, NY

Instructor (June 2018 – August 2018)

* Taught various programming languages (Java, Python, GameMaker Studio 2) to students between the ages of 7 and 17
* Structured daily lesson plans that incorporated computer skills into fun exercises
* Helped maintain order and discipline amongst 50+ children through organized activities

**PROJECTS**

***Motion Detection using Optical Flow*** (November 2019)

* Program that takes webcam video and detects motion, highlighting it with a red rectangle as well as using optical flow to get and display trajectory of said motion
* Created in C++ with OpenCV library

***Snow 3G Stream Cipher*** (September 2019)

* + Implemented a Snow 3G cipher using C++ that is used to encrypt and decrypt data using a 128 bit initialization variable and a 128 bit key

***Binghamton Professor Finder*** (November 2017)

* + Developed a Chrome Extension that integrates RateMyProfessors.com with Binghamton’s Look Up Classes Page to optimize the class registration experience
  + Used HTML and Javascript to receive information from the RateMyProfessors website and display it inline on the Binghamton page
  + Published to the Chrome Web store with over 50 users

**Research**

***Gaze Patterns of Location Recognition/Non-Recognition*** (September 2016 - December 2017)

* + Collaborated with team of 7 to research how eye gaze indicates recognition of a location
  + Tracked gaze and gathered data using Tobii Pro camera and iMotions software
  + Wrote 15-page paper for the 24th International Conference on Pattern Recognition

**Activities**

***UPE (Upsilon Pi Epsilon)*** (April 2019 - Current)

* + Member of the International Honor Society for Computing and Information Disciplines