Sean ███ . Francis

• *St. Thomas, USVI 00804* •

Objective: Obtain a position as a computer programmer or engineer at a company or research lab which utilizes my physics, mathematical, and programming educational background and experience

EDUCATION

COLUMBIA UNIVERSITY, New York City, NY
Bachelor of Science in Applied Physics, May 2013
- *Relevant Coursework*: Computer Animation in C++; Advanced Programming in Perl, HTML, C, C++; and Data Structures and Algorithms in Java

UNIVERSITY OF THE VIRGIN ISLANDS, St. Thomas, USVI
Associate of Science in Physics, May 2011

PROFESSIONAL EXPERIENCE

MEMORIAL SLAON KETTERING CANCER CENTER   September 2013 – August 2014
Instrumentation Engineering Internship, New York, NY
- Assist head of the *Research Engineering Lab* on projects involving programming, product development and integration
- Programmed the *Graphic User Interface (GUI)* and sub-functions in *MATLAB* used for acquiring data and controlling systems in the design and development of metrology system for a *surgical laser robotic platform*
- Designed and machined custom parts used to integrate a *custom CO2 surgical laser* with a *hollow waveguide fiber (HWG)*
- Recreated laser control functions to implement a *linear power* calibration and investigated different *detection algorithms* to interface *Raman Spectrometer to* MATLAB for automated laser exposure and data acquisition

ENIGMA TECHNOLOGIES   Summer 2012
Software Developer Internship, New York, NY
- Worked with company's co-founder on multiple projects involving programming
- Programmed parsing scripts in Perl to automate downloading and organizing of numerous online, open datasets that were incorporated into database for a search engine for business transactions (web scraping)

PROGRAMMING SKILL SET

- MATLAB (proficient)
- Perl (proficient)
- Unix (familiarity)

AWARDS AND HONORS

- Dean's List Fall 2008, Fall 2009, Spring 2010 – University of the Virgin Islands
- Federation of American Societies for Experimental Biology (FASEB)/Minority Access to Research Careers (MARC) Program Poster/Oral Presentation Travel Award for Annual Biomedical Research Symposium for Minority Students (ABRCMS) Fall, 2010
- Golden Key International Honor Society Member