

Joshua Vorick

336633 Georgia Tech Station
Atlanta, GA 30332-1695

(224) 610-6331
josh.vorick@gmail.com
<https://github.com/JoshVorick>

Objective: Obtain Software Engineering Internship for the Summer of 2015

Education

Georgia Institute of Technology

Atlanta, GA

August 2014 – Present

- Bachelor of Science in Computer Science
- Expected Graduation: May 2017

Online courses

- **Machine Learning** (Stanford)
 - Wrote Neural Networks, Clustering, and Logistic Regression algorithms in Octave.
- **Algorithms: Design and Analysis** (Stanford)
 - Coded Dijkstra's, Balanced binary trees, and hashing algorithms in C++.
- **Cryptography I** (Stanford)
- **Python** (Codecademy)

Skills

Strong knowledge of: C, C++, Python, Java
Experience in: Go, Haskell, Mathematica, Octave, Visual Basic
Platforms: Linux, Windows
Libraries: SDL, Allegro 5, OpenCV, OpenGL, termbox, NumPy, SciPy
Spoken Languages: Semi-fluent in Spanish

Personal Projects

Lip Reader (C++, Python, Linux)

HackGT 2014

- Used web cam, face detection and hashing to discriminate between different lip movements

Sia (Go, Linux)

Summer 2014

- Developed command line interface for Nebulous Lab's Sia client.

Visualizing Complex Functions (C, Haskell, Linux)

Summer 2014

- Multithreaded program that interactively displays functions in a variety of color schemes
- Save fractals as arbitrarily large png or files

Tower Defense (C, Linux)

Winter/Spring 2014

- Tower defense game written for Linux using the **SDL** graphics library
- Uses depth first search to do path finding extremely efficiently

Fun With Particles (C++, Windows)

- Simulates flame, fireworks and Newtonian gravity
- User can change over 10 different variables including gravity, color spectrum, and initial velocity

Experience

PCTEL

Bloomington, IL

Product Management Intern

Summer 2014

- Created interactive Product Concept Form in Excel using Visual Basic
- Organized product history and made application that displayed summative history of past products' success

W. Kim Tae Kwon Do

Palatine, IL

Assistant Master

February 2010 – August 2014

- Head instructor for local YMCA and Park District classes
- Manage classes of up to 50 students and 5 assistant staffs