

Kyle Franke

51 Chestnut St, Binghamton, NY 13905 • (845) 522-3208 • kfranke1@binghamton.edu • <http://www.github.com/grawlixes>

Education

Binghamton University, State University of New York

May 2019 expected

Overall GPA: 3.69/4.00 | Dean's List: Spring 2016 – Present

Watson School of Engineering at Binghamton, Bachelor of Science in Computer Science

Major GPA: 3.91/4.00

Harpur College of Arts and Sciences at Binghamton, Bachelor of Arts in Mathematical Sciences

Major GPA: 3.90/4.00

Technical Skills

Languages: C++, C, Python, Java, Swift, X-86 Assembly, MIPS Assembly, LaTeX

Software and OS: bash, vim, VirtualBox, VMWare, XCode, IDLE, Texmaker, Eclipse, Git, Ubuntu, Windows, OS X

Additional: Microsoft Excel & Office, basic JavaScript, basic HTML/CSS, digital circuit design, number & set theory

Professional Experience

Independent Software Engineering Consultant

Binghamton, NY, **October 2017 – Present**

- Reaching out to clients, particularly local startups, to develop software at competitive rates
- Working with, meeting with, and reporting to clients directly for better results and appropriate deadlines
- Documenting and reporting all development on a consistent weekly basis for clients' convenience
- Gaining real experience in a professional programming environment during free time

Shute Engineering, Intern

Goshen, NY, **May 2016 – August 2016**

- Fixed, optimized, and updated the software of old and previously unusable PCs in the office
- Organized a common file network between office computers so important documents could be accessed anywhere
- Attended client meetings, took notes, and became familiar with client interactions
- Wrote weekly reports for management and kept an organized schedule of completed tasks

Projects *[available on my GitHub; see top of document]*

Transmogriifier

Binghamton, NY, **April 2017 – May 2017**

- Created a program in C that converts 64-bit double values to values that take up less memory, and vice versa
- Utilized efficient and non-repetitive bit-shifting algorithms to minimize time and resource consumption
- Saved memory space on other C projects by importing Transmogriifier as a module and using its methods

Xyphos

Montgomery, NY, **March 2017 – Present**

- Coded an original Python program inspired by HBO's Silicon Valley that compresses and decompresses text files
- Manipulated text files using string and operator methods to decrease the size of text files
- Decreased large file sizes by as much as 20% in a fraction of a second

EncryptionSim

Montgomery, NY, **June 2016 – July 2017**

- Used Python to encrypt plain-text input and convert it to a hashed string, or to decrypt an already encrypted string
- Encrypted strings using insertion of tuple elements, decrypted by removing elements with string methods
- Presented project to HACK BU members, taught students about encryption, and answered questions

Leadership Experience

Upsilon Pi Epsilon, Member & Tutor CS/Math, Binghamton, NY

August 2017 – Present

- Tutoring students in courses such as Computer Systems I & II, Data Structures, Combinatorics, and Calculus I-III
- Reaching out to fellow CS/Math students who are struggling with material to help them succeed

Student Support Services, Tutor for CS/Math, Binghamton, NY

January 2016 – Present

- Tutoring students in Python and Java programming courses, as well as Calculus I, II, and III

HACK BU, Organizer and Presenter, Binghamton, NY

January 2016 – Present

- Attending weekly meetings, helping fellow members with their code, and organizing hackathons and weekly events
- Presented my EncryptionSim project in September of 2016 (see Projects)