Kyle Franke

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Education

Binghamton University, State University of New York

Overall GPA: 3.63/4.00 | Dean's List: Fall 2015 - Present

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

Major GPA: 3.92/4.00

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

Major GPA: 3.88/4.00

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 Sierra

Additional: regular expressions, basic JavaScript, basic HTML/CSS, digital circuit design, number & set theory

Professional Experience

Software Engineering Consultant

Binghamton, NY, October 2017 - Present

May 2019 expected

- -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
- -Coding software, particularly in Java and Swift, for the CEO of Runaway App and Valdivian Consulting
- -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]

Transmogrifier

Binghamton, NY, April 2017 - May 2017

- -Created and coded 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 Transmogrifier 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 methods, operator methods, and regular expressions 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 random insertion of tuple elements, decrypted by removing obfuscating elements with string methods
- -Presented project to HACK BU members, taught students about encryption, and answered questions

Binghamton University, Java Co-Programmer

Binghamton, NY, November 2016 - December 2016

- -Implemented a scientific calculator in Java to perform multiple complex mathematical operations and save user data
- -Managed project using GitHub Version Control System and documented code using JavaDocs

Arduino Programmer

Binghamton, NY, October 2016

- -Programmed open source electronics platform using C to play musical songs through 8-ohm speaker
- -Submitted source code and live demonstration to TA for a perfect grade

Leadership Experience

Upsilon Pi Epsilon, Member & Tutor for Computer Science and Mathematics, Binghamton, NY

August 2017 - Present

- -Tutoring students in over 10 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 Computer Science and Calculus, Binghamton, N

January 2016 - December 2016

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

HACK BU, Member and Presenter, Binghamton, NY

January 2016 – Present

- -Attending weekly meetings, help fellow members with their code, and learn new things about the programming world
- -Presented my EncryptionSim project in September of 2016 (see Projects)

Association for Computing Machinery (ACM), Binghamton, NY

September 2016 - Present

- -Attending weekly meetings and coding competitions between members
- -Engaging in difficult coding problems and group programming work to prepare for a professional environment

Employment

Partner, Stewart's Shops

Orange Lake, NY, **Summer 2016 & 2017**