Philip Aquilina

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Portfolio: https://philaqui9.github.io/

Education

Rutgers University, N.B. — *B.S. Computer Science* Class of May 2020
Minors: Psychology, Entrepreneurship
Relevant Coursework: Introduction to Computer Science, Data Structures, Discrete Mathematics I and II, Computer Architecture, Linear Algebra, Linear Optimization, Internet Technology

SKILLS

Programming Languages: Java, C, Javascript, HTML, CSS, MySQL
Tools: Agile, Git, Bootstrap, AWS, JavaFX, Swing, Microsoft Office
Classroom Only: Vim, Matlab, Android Studio, Sublime 3, Assembly

EXPERIENCE

Regal Cinemas, South Plainfield — *Floor Staff* June 2018 - January 2019
- Assisted 200+ customers daily by leveraging technical knowledge with a POS system to direct sales, provide information to customers and manage shifts

Retro Fitness, Edison— *Front Desk Associate* June 2017 - June 2018
- Scheduled appointments for clients and collaborate with the training department to facilitate customer service responsiveness. Aided in training new employees
- Led other employees in ensuring opening/closing procedures were followed

Rutgers C.A.V.E. — *Tutor* Sept 2017 - Nov 2017
- Hosted material review, problem set solving, and study-group sessions for students
- Taught 15 Computer Science students, resulting in an average improvement of 2 letter grades

PROJECTS

Personal Web Portfolio — *HTML/CSS/Javascript*
- Created a personal website to host my resume, projects, and information
- Utilized Bootstrap framework for frontend design

Song & Photo Libraries — *Java*
- Created applications utilizing JavaFX that allowed users to upload, store and organize data through a client side GUI. Utilized serialization to maintain records of users and their information

Multi-Threaded Encryption Server — *Java*
- Applied knowledge of Java sockets and Swing and to construct a client/server program
- Used knowledge of discrete mathematics to implement a server side message encryption algorithm

One-Shot Learning — *C*
- Exercised knowledge of Linear Algebra and wrote a C program that predicted home prices using linear regression after obtaining training data from a given input file.
- Allowed users to input historical data to predict house prices in their area

Cache Simulator — *C*
- Built a C program that simulates an L1 Cache utilizing a first-in first-out replacement policy (FIFO), storing hexadecimal data obtained using file I/O
- Leveraged knowledge of caches in order to implement calculations for mappings and added prefetch functionality