

Summary of Qualifications

- Adaptable and dedicated team player with strong analytical and problem solving skills; passionate about helping others by means of education and currently seeking a summer 2019 internship in software engineering
- Quick to proactively research technical problems and pick up new languages and technologies
- Enjoy encountering and solving technical problems - enjoy it even more when collaboratively working with engineering teams
- 2 years of experience working with compilers, programs centered around object oriented programming, and 1 year of experience with agile software development, working 40 hours a week, and writing clean, testable code

Education

Rensselaer Polytechnic Institute, Troy, NY

Expected Graduation Date: May 2021

Bachelor of Science in Cognitive Science (technical training in Computer Science)

- GPA: 3.6/4.00

Relevant Coursework

Computer Science: Data Structures, Foundations of Computer Science (Discrete Mathematics and Computing), Introduction to Algorithms (Spring 2019), Computer Organization (Spring 2019)

Mathematics: Multivariable Calculus, Differential Equations

Cognitive Science: Introduction to Cognitive Science, Cognitive Psychology, Research Methods and Statistics 1 (Spring 2019)

Technical Experience and Internship

Software Engineering Intern - Image Processing Group

July 2018 - Aug 2018

Hermes Microvision Incorporated

San Jose, CA

- Enhanced images that would impact how advanced-level AI models would learn
- Applied best practices and developed software involving gamma adjustment that replaced company's pre-existing code and increased model's performance
- Worked in a fast-paced environment and presented findings with before and after pictures to mentor and rest of Image Processing Group
- Demonstrated precise attention to detail, collaborative ability, and communication skills with other interns and engineers in creating innovative ways to increase contrast in order to create high-quality images

Shuttle Tracker

Aug 2018 - Current

Rensselaer Center for Open Source

Troy, NY

- Building scheduling product system (all code is on Github) to allow users to click on shuttle stop and display next 3-5 times shuttle will arrive in real-time (currently in product development)
- Designed and developed a reliable, lightweight Golang parser that integrated data from a set of 5 Excel spreadsheets into 3 JSON files to be used in web-based and mobile Shuttle Tracker application

Projects

Aerial Image Change Analyzer (Team 14 Project)

Sept 2018

IBM: Call for Code Hack-a-thon

Troy, NY

- Participated in IBM's 24+ hour hack-a-thon to design and implement project based solutions to mitigate damage caused by natural disasters
- Using Google Maps' API and IBM's Watson cloud technologies, created software solutions to send drones out after disaster has occurred to survey what damage has been done to infrastructure and calculate fastest route to send out help
- Damage was calculated by "difference" in color images from pre-existing Google Maps' API and IBM's Watson technologies

Wumpus World Robot

Fall 2017

Minds and Machines

Troy, NY

- With a team of 3 people, built a cognitive robot programmed to complete a complex logic puzzle on a physical 4x4 grid on the floor and was tasked with getting "gold" in one of the grid boxes while avoiding numerous "pits" and the monster "Wumpus"
- Constructed logic for the programming algorithm, helped build the robot, and created a website to document day-by-day tracking of the project flow and final report

Skills

Coding Languages: C++, Python, HTML, \LaTeX , Go, PostgreSQL (learning), C (learning)

Operating Systems: MacOSX, Linux

Languages: English (Fluent), Russian (Fluent), Mandarin Chinese (Intermediate)

Leadership

Assistant Coach

January 2016 - Current

Diana's Rhythmic Gymnastics

San Jose, CA

- Coached group classes of up to 30 ambitious students in conditioning and apparatus handling, along with private one-on-one lessons
- Committed to teaching 3 values: how integrating passion into routines yields boldness, how deep honesty in candid feedback enables emotional growth as a gymnast, and how solidarity should be displayed on the carpet
- Incorporated communication skills into coaching, and taught in both English and Russian