

SOFTWARE ENGINEER . LEARNING ENTHUSIAST

2 Prides Crossing, Sparta, New Jersey, United States of America

□ (914)-629-7147 | ☑ LukeRocheDev@gmail.com | 🏕 compiler.github.io | 🖫 Compiler | 🛅 luke-roche

Education _

Rutgers University

New Brunswick, New Jersey

B.S. IN COMPUTER SCIENCE AND B.A. IN PURE MATHEMATICS

January. 2018 - Expected May. 2020

Related Coursework: Calculus I-III, Introduction to Artificial Intelligence.

Kean University

Union, New Jersey

B.S. IN COMPUTER SCIENCE AND B.A. IN MATHEMATICS

Sep. 2016 - December. 2017

Related coursework: Data Structures, Assembly, Computer Architecture.

Experience _

Natural Language Processing Research

Union, New Jersey

UNDER DR. KAI WANG, SPONSORED BY LSAMP

Sep. 2017 - Jan. 2018

- Computed the novelty of a document relative to 100,000 other documents with the same main topic.
- Implemented an algorithm to optimize populating and sectioning a graph with over 1,000,000 nodes.

Virtual and Augmented Reality Research

Union, New Jersey

Under Dr. Jenny Li, sponsored by STEMPACT

Oct. 2016 - May. 2017

- · Researched ability of virtual and augmented reality to be implemented and survive in the marketplace.
- Garnered 1st place in final evaluation when compared to every other CS researchers at Kean STEMPact.

Code Samurai Union, New Jersey

TUTOR FOR KEAN UNIVERSITY

Jan. 2017 - Jan. 2018

- Instructed students on complex topics in algorithms, OOP, C++, machine learning and other CS topics.
- Established solid foundations in over 500 students with rigorous exercises, discipline and persistence.

Projects

NLParallelNew Brunswick, New Jersey

MACHINE LEARNING CONNECTION GENERATOR

Aug. 2018

- Generates a logical connection, using Natural Language Processing, between any two general topics.
- Scrapes, archives, and sorts data such that the algorithm can find connections between any topics.

A2B Glassboro, New Jersey

HACKATHON PROJECT BUILT IN 24 HOURS

Feb. 2017

- Gives users the ability to use GoogleMaps, without internet, through SMS technology and Twilio.
- Accumulated both the 2nd place and Hackers Choice prize against roughly 200 other competitors.

Skills

Computer Science

LANGUAGES OR FRAMEWORKS AND SELF TAUGHT MATERIAL

- Java, C++, Python, C, R, LibGDX, Flask, TensorFlow
- Algorithms, Machine Learning, Pure Mathematics

Societies & Committees

2017	Volunteer Major League Hacking - Hack Kean	New Jersey
------	---	------------

2016 Member Association for Computing and Machinery New Jersey

2016 **Member** RAM Scholars New Jersey

2016 **Member** Association for Computing and Machinery - Women New Jersey