# Clarisa Leu | http://clarisaleu.github.io/ | clarisaleu@gmail.com

## EDUCATION

**B.S. Computer Engineering**
**B.S. Applied Math (Focus: Discrete Math & Algorithms)**
University of Washington – Seattle, WA
Expected Graduation: June 2021
Awards: Google Scholarship 2018-2019, BAVA Scholarship 2018-2019
Activities: Student Instructor @ DubsTech UW;
Participating Member: Open-Source UW, ACM, SWE

**A.S. Electrical and Computer Engineering**
**A.A. Computer Science**
Tacoma Community College – Tacoma, WA
Graduated: June 2018
Distinction: High Honors
Honors and Awards: Student of the Year Finalist 2017-2018, Math Student of the Year Runner-Up 2017-2018
Activities: Developers Club, The Engineering Club

## WORK EXPERIENCE

**Undergraduate Research Assistant** | Dr. Eric C. Ford & Dr. Dolla Toomeh @ UW Medical Center | November 2018 – Present
- Our goal is to create a new generation of devices that provide advanced Radiation Therapy more affordably to ease global health disparities. Project is featured in *The Physics World* (thephysicsworld.com) Top 10 Breakthroughs of 2018.
- Researches novel design of physical compensator based IMRT device on team and implements physical compensator in Python script which is connected to treatment planning software (RayStation).
- Collects, analyzes, and clearly summarizes data using a variety of techniques and technologies including MATLAB, Excel, Jupyter Notebook, and Python. Other duties include literature review and reading papers.

**Student MATLAB Ambassador** | MathWorks | November 2018 – Present
- Implements creative ideas for spreading awareness for the MathWorks brand and products among students. Promotes MathWorks presence on campus and demonstrates MATLAB software applications through planned monthly events.

**Software Engineering Intern** | CueMed Inc. @ Front-End Team | June 2018 – September 2018
- CueMed Inc. is a digital health hardware startup focused on improving medication adherence and health conditions with chronic conditions.
- Implemented maintainable front-end and back-end code based on design specification in ReactJS, NodeJS, CSS/SASS, TypeScript, JSON, and vanilla JavaScript.

**Undergraduate Research Assistant** | Dr. Ka Yee Yeung @ University of Washington Tacoma | June 2018
- Our goal was to contribute to a crowdsourcing project to build predictors to distinguish people who became contagious or develop symptoms after exposure to the flu or other respiratory viruses as part of the *Summer Institute for Research Education in Bioinformatics and Biostatistics.*
- Analyzed and summarized large amounts of biological data in R and Jupyter Notebook using statistical methods. Presented research for 50+ undergraduate and graduate researchers and earned certificate of completion.

**Mathematics Tutor & Front Desk Staff** | Tacoma Community College @ MARC | January 2017 – June 2018
- Simplified and effectively communicated complex math problems to students in simple terms and coached them to strategically think about abstract problem-solving under pressure. Topics tutored included MATLAB, Mathematica, Linear Algebra, Statistics, Differential Equations, and Multivariable Calculus.
- Created handouts and study aides for statistics students to be used by the college.
- Earned international tutor certification (Level II) under the College Reading & Learning Association (CRLA).

## LEADERSHIP EXPERIENCE & EXTRACURRICULARS

**SWE Hacks19 Organizing & Leadership Team** | Public Relations Committee Member | November 2018 – April 2019
- Organized SWE Hacks19, the collegiate hackathon hosted by the Society of Women Engineers (SWE) chapter at the University of Washington, on appointed team of committee members.
- Led all communications between sponsoring companies, participants, and judges. Worked within the larger leadership team to successfully host our 2nd annual hackathon with over 120+ participants.

**Hackathon Participant** | January 2018 – Present
- Hacked in over 15+ local, national, and collegiate hackathons, won or placed in 70% where prize is offered.
- Favorite Project: Redesign a website in WordPress for a non profit organization in under 36 hours at Seattle GiveCamp 2018. See project here: http://ststephenhousing.org/