

Glenn LeBlanc

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Experience

Computer Science Mentors

Jan 2019-Present

Junior Mentor - Directed weekly small group sections for CS 61B (Data structures). Presented lectures and guided students through worksheet questions. Gauged student understanding and adjusted focus accordingly.

Berkeley DeCal

Aug-Dec 2019

Course Facilitator - Developed curriculum and presented lectures on introductory topics in quantum mechanics and quantum algorithms to over 15 undergraduates. Assessed students' understanding; ensured efforts made a positive difference.

NASA Quantum Artificial Intelligence Laboratory

Jun-Aug 2019

Research Internship - Methods development for near term quantum computing at NASA Ames' Quantum Artificial Intelligence Laboratory. Developed python toolkit for parameterized tensor network contraction for evaluating Max-Cut QAOA expectation values.

Education

UC Berkeley

Expected Graduation: May 2021

Bachelor's, Physics & Data Science, Computer Science Minor, Dean's list (Fall 2018, Spring 2019) **GPA - 3.76/4.0**

Relevant Coursework - Quantum Computing; Data Structures; Quantum Mechanics; Linear Algebra; Electrodynamics; Introductory Experimental Physics; Abstract Algebra; Discrete Math; Computer Architecture; Convex Optimization; Introductory Probability Theory

Activities

Projects (code available upon request)

Tiny Git: a mini version-control system featuring branching and merging (Java)
Quantum partial search implementation using Forest SDK (Python)
Fraunhofer diffraction simulation for arbitrarily shaped apertures using DFT (Python)

Quantum Computing at Berkeley

Officer - Webdev; participant in weekly journal club and project group. Organize talks and events.

Skills

Languages

Python, Java
Scheme, Scala, C, HTML
Bash, C++

Other

Linux/UNIX
Git
Excel