Spencer Churchill

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EDUCATION

UC IRVINE
B.S., Computer Science
June 2022 | Irvine, CA
Donald Bren School of ICS
Cum. GPA: 3.76 / 4.0
Major GPA: 3.8 / 4.0

STANFORD UNIVERSITY
Lecturer
May 2018 | Stanford, CA
Bay Honors Research Conference

LINKS

GitHub:// **splch**
StackOverflow:// **splch**
Devpost:// **splch**
LinkedIn:// **splcher**
Kaggle:// **splcher**

COURSEWORK

UNDERGRADUATE
Quantum Computation
(Research Asst. & Teaching Asst.)
Artificial Intelligence
Machine Learning
Virtual Reality
Operating Systems
Data Structures & Algorithms
Database Management

PROJECTS

GITHUB
34 repositories, 43 pull requests, 42 followers, 32 stars, and 11 forks

CHROME STORE
5,300 users, 100 countries, 5 extensions, 4.72 average rating

SKILLS

PROGRAMMING
Officially Certified
Python • Go • C++ • C
JavaScript • HTML • CSS
Over 1000 Lines
RISC Assembly • Julia • Ruby
Flutter • Dart • R • Bash

EXPERIENCE

IBM QUANTUM | Qiskit Advocate
Aug 2020 - Present | New York, NY

- Updated **nine chapters** of the Qiskit Textbook, a primary resource for quantum programming, to better teach difficult concepts
- Published **Qiskit Medium article** to thousands of readers, demonstrating RSA decryption
- Lectured at the University of Toronto, Queensland, McMaster, Tennessee Tech, and Historically Black Colleges and Universities

BROOKHAVEN NATIONAL LABORATORY | Teaching Fellow
Jun 2021 – Present | Brookhaven, NY

- Organized and supported a team of 15 interns in learning scientific computing, resulting in 5 new functions in Wolfram Alpha
- Led research across 5 teams into different energy potential functions for optimization, speeding up lab research across all projects

BENTOML | ML Architect
Sep 2021 – April 2022 | San Francisco, CA

- Created a machine learning gallery demoing model hosting with 3 unique projects from summarization to COVID classification
- Promoted BentoML for its major release, increasing viewership by 8%

RESEARCH

IBM RESEARCHERS' PROGRAM | Mentee
Sep 2020 – Present
Collaborated with **Naoki Kanazawa** to upgrade **OpenPulse**, a framework enabling microwave-level control of qubits, to a scalable syntax with updated documentation.

UNITARY FUND | Project Lead
Aug 2020 – Sep 2021
Pioneered writing **Quantum Tales**, an educational resource for teenagers interested in quantum algorithms, with support from **Travis Scholten**.

AWARDS

2021	1st / 167	Machine Learning Data Competition, UC Irvine
2020	1st / 440	HackSC 2020 — USC Hackathon
2019	1st / 433	SD Hacks 2019 — UC San Diego Hackathon
2020	Global	IBM Certificate of Quantum Excellence
2018	National	Eagle Scout of Troop 1210

PUBLICATIONS

[1] S. Churchill. Rnn composition of thematically diverse video game melodies. *The Computer Games Journal*, 2018.

[2] S. Churchill. Statistical mozart: Completing the requiem. *Think You?! Journal*, 2019.

[3] S. Churchill and L. Sharina. Quantum tales. *arXiv*, 2021.

[4] H. Kinsley, D. Kukieła, S. Churchill, and T. Halvorson. Neural networks from scratch. *Kickstarter*, 2020.