DWK

DAVE WHITMAN-KINGHORN
SOFTWARE ENGINEER

EDUCATION

Rochester Institute of Technology (RIT):
B.S. in Software Engineering.

Graduated in August 2020.

AFFILIATIONS

Society of Software Engineers (SSE) at RIT (2016-2020)

Member

Previously Laboratory Operations Committee Head

Sailing Team (2015-2020)
Practices & Regattas

Club Café at RIT (2016-2018)
Founder and previous President

Eagle Scout (2014)
Troop 160 Lexington, MA
- Community service
- Camping
- Sailing

Skills USA Massachusetts
Engineering design competition
- Bronze 2013
- Silver 2014

EXPERIENCE

Mass ENERGIZE • **SOFTWARE ENGINEER** • **2021**
Full-stack development on an agile team to maintain, develop new features and tests, and make design decisions. My primary goal is to increase site visitor's engagement and encourage first time visitors to return.
Tools: **Django, Python, ReactJS, JavaScript**

AFRL (AIR FORCE RESEARCH LAB) • **SOFTWARE ENGINEERING CO-OP** • **QUANTUM ALGORITHMS** • **2019**
Worked on a team with six other software developers to produce two quantum computer simulators. Responsible for design, development, and testing.
Noisy Quantum Computer Simulator: Produced a simulator to replicate noise and real-world errors in a quantum computer to support a published paper.
Photonics Simulator: Developed a multi-part simulator to test experiments for a Quantum Photonic Processor.
Tools: **Python**, **Qiskit**, **Pyquil**, **Cirq**

SciAps • **SOFTWARE ENGINEERING CO-OP** • **2018**
Worked on a six-member agile software team to create an Android version of a Python desktop application for hardware QA. Responsible for design, development (Full Stack), and testing.
Tools: **Android**, **Java**, **RxAndroid**, **Android Studio**, **Gradle**

PUBLICATIONS

Koch, D., Torrance, A., Kinghorn, D., Patel, S., Wessing, L., & Alsing, P. M. (2019). Simulating Quantum Algorithms Using Fidelity and Coherence Time as Principle Models for Error. *arXiv preprint arXiv:1908.04229*.

davidreact@gmail.com   (339) 223-8090   linkedin.com/in/davewk   dave.kinghorn.me