DAVE WHITMAN-KINGHORN

SOFTWARE ENGINEER

EDUCATION

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

OPTIONAL COURSES

Software Performance Engineering,
Principles of Data Management,
Software Testing,
Trends in Software Dev.

AFFILIATIONS

Society of Software Engineers (SSE) at RIT (2016-2020)
Member and Laboratory Operations Committee Head

Sailing Team (2015-2020)
Casual and competition

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

Eagle Scout (2014)
Troop 160, Lexington, MA

Skills USA Massachusetts
Engineering design competition. Silver 2014, Bronze 2013.

EXPERIENCE

Mass ENERGIZE • **SOFTWARE DEVELOPMENT MANAGER • 2021 - 2022**
Designing, developing, and testing features of the React-Django website, promoting everyday green activism.
Tools: Django, Python, ReactJS, PostgreSQL, Firebase

LOCKHEED MARTIN • **RIT CAPSTONE PROJECT • 2019 - 2020**
Product Manager for my capstone project at RIT. Led a team of four developers building an event planning application for Lockheed Martin's internal use. Met with stakeholders regularly to discuss priorities and progress as well as to groom the product backlog.
Tools: Asana, Trello, Scrum, AngularJS, PostgreSQL

AFRL **(AIR FORCE RESEARCH LAB) • CO-OP • QUANTUM ALGORITHMS • 2019**
Worked on a team of seven developers to produce two quantum computer simulators. Responsible for requirements, design, development, and testing for both.
Noisy Quantum Computer Simulator: Designed and developed a simulator to replicate noise (quantum errors) and real-world errors in a quantum computer to support a published paper on the fidelity of quantum algorithms.
Photonics Simulator: Designed and developed an object-oriented simulator to test experiments for a Quantum Photonic Processor.
Tools: Trello, Python, Qiskit, Pyquil, Cirq
Publication: D. Koch, A. Torrance, D. Kinghorn, S. Patel, L Wessing, P. M. Alsing, Simulating Quantum Algorithms Using Fidelity and Coherence Time as Principle Models for Error, 2019.

SciAps • **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**

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