



# DAVE WHITMAN-KINGHORN

SOFTWARE ENGINEER

## EDUCATION

**Rochester Institute of Technology (RIT):**

B.S. in Software Engineering.

Graduated in August 2020.

## 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



• **SOFTWARE ENGINEER • 2021 - PRESENT**

Designing, developing, and testing features of our React-Django website, promoting everyday green activism.

**Tools: Django, ReactJS, PostgreSQL, Firebase**



• **RIT CAPSTONE PROJECT • EVENT PLANNING APPLICATION • 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**



(AIR FORCE RESEARCH LAB) • **SOFTWARE ENGINEERING CO-OP • QUANTUM ALGORITHMS • 2019**

Worked on a team of seven software 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:** Simulating Quantum Algorithms Using Fidelity and Coherence Time as Principle Models for Error - Daniel Koch, Avery Torrance, David Kinghorn, Saahil Patel, Laura Wessing, Paul M. Alsing



• **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**



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