# Aaron Vontell

Computer Science, Quantum Software Development, Mobile Development


## about

Aaron Vontell
229 Vassar Street
Cambridge, MA 02139

vontell@mit.edu
http://avontell.com
github.com/vontell


## programming

Java (w/ Android)
Python & Flask
JavaScript
AngularJS & NodeJS
Express & SQL
ARTIQ

## other skills

Quantum prog.
Graphic design
User interfaces
Consumer-focused
RESTful backends
Automation

## awards

YHack '16 2nd Place
*Android App*

SimHack 1st Place
*Android App*

HackGT AWS Award
*Machine Learning*

See more projects at
avontell.com/projects

## interests

quantum programming, quantum compilers, algorithms, complexity theory, Android development, full stack development, accessibility, consumer planning

## education

2014 - 2018 **B.Sc. Computer Science and Engineering**
Massachusetts Institute of Technology (4.7 GPA)
Focus on Theoretical Computer Science

## experience

Summ. 2017 **Rigetti Quantum Computing (Berekeley, CA)** Junior Quantum Engineer
*Internship on implementing quantum algorithms, quantum compilers, and quantum programming analytics.*

2016 - 2018 **RLE Quantum Photonics Laboratory (MIT)** Undergraduate Researcher
*Control architecture for NV centers in diamond. (https://goo.gl/5b1TJX)*
*Papers: http://avontell.com/papers/pulse.pdf, avontell.com/papers/utility.pdf*

2016 - 2018 **CSAIL Decentralized Information Group (MIT)** Undergraduate Researcher
*Android tools and resources for accessible application development. Awarded funding by the Seth Teller Fund. (https://goo.gl/8EvgML)*

2016 - 2018 **Battlecode Programming Competition (MIT)** Lead Developer
*Development of programming competition with 3000+ participants.*

2014 - 2016 **Cigna Health Insurance (Connecticut)** Summer Intern
*Android and web development for health care applications.*

since 2014 **Startup and contractual work (Boston, MA)**
*Lead developer of two startups (Parcio and CarSwipe), CTO of UpStudent, CEO of Good Enough Apps.*

## projects

2017 **Quantum computing applications** https://github.com/rigetticomputing/grove
Implemented Shor's algorithm, inverse quantum Fourier transform, amplitude amplification, superdense coding, oracle algorithms, and compiler tools.

2016 **IndicatorBinder** https://github.com/vontell/IndicatorBinder
Android library that attaches position indicators to a ViewPager.

2016 **Highlights** https://github.com/vontell/Highlights
YouTube powered by machine learning and computer vision. **2nd at YHack**

2017 **Rally** https://github.com/GoodEnoughSoftware/Rally
Android application for finding places to meet with friends.