

JOHN KOTZ

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EDUCATION

Dartmouth College – Hanover, NH

Bachelor of Arts in Computer Science

Courses: Software Development and Implementation, Digital Electronics, Computer Animation, Machine Learning, Artificial Intelligence, Algorithms

June 2019

GPA: 3.52/4.0

WORK EXPERIENCE

Digital Arts Leadership and Innovation (DALI) Lab – *Senior Developer and Mentor* **January 2016 - Present**

- iOS and Android development
- Developed internal productivity resources for lab members
 - Built REST API to handle and control all information and features available to members
 - Released iOS and Android app using the API, now on every member's device
- Coordinated with developers and designers in teams to develop iOS and Android applications
 - Overhauled past iOS project BookUp to enable live messaging in-app
 - Launched React-Native location-based scavenger hunting app prototype-release in 2 ½ months
- Mentored teams and members with debugging and best practices for React-Native, Swift, and Objective-C

BookUp, LLC – *Co-Founder, Lead iOS Developer*, Hanover, NH

June 2016 - February 2017

- Redesigned and expanded functionalities of iOS app, increasing usage by 10%
- Rebuilt iOS app and server, increasing performance by 25%
- Partnered with Dartmouth professors and presented in classes, generated 40% more usage

Dartmouth COSC 50 – *Learning Fellow*, Hanover, NH

March 2017 - June 2017

- Inspired, guided, and organized 12 of 70 students during in class activities and final projects
 - Gathered insights on what would improve the course and which students needed more help
 - Tutored students to reinforce class material
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PROJECT EXPERIENCE

Valley Quest – *iOS Developer*, Lebanon, NH

June 2015 - June 2016

- Designed, developed, and released Valley Quest iOS app as a volunteer at non-profit Vital Communities

Encounters Study – *iOS Developer*, Hanover, NH

January 2016 - June 2016

- Engineered iOS app counterpart in Dartmouth research study tracking students using BLE iBeacons

Khan Academy Animation Development – *Processing JS Intern*, Hanover NH

August 2014 - June 2015

- Devised and defined animations on Khan Academy demonstrating algorithm applications including Towers of Hanoi
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LEADERSHIP & ACTIVITIES

Creative Gaming Club – *Event manager, Vice President, and Co-Founder*, Hanover, NH.

August 2016 - Present

- Grew attendance at events by 300%
- Forged new and profitable partnerships with local clubs and businesses

Coder Dojo – *President and Instructor*, Hanover, NH

October 2015 - Present

- Taught elementary, middle, and high school students in NH how to code in Swift and on NXT
 - Created all new curriculum in Python to advance all levels of students to capable coders in 10 weeks
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AWARDS & HONORS

Apple WWDC Scholarship Recipient – San Jose, CA

June 2017

- Given one of 350 scholarships to attend Apple's World Wide Developer Conference in San Jose

Neukom Scholar – DALI Lab, Hanover, NH

January 2016

- Awarded \$1000 for exceptional work in the DALI Lab
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SKILLS & INTERESTS

Skills: iOS, Swift, Objective-C, Xcode, React-Native, Bash, C, Git, Javascript, Node, Express JS, React JS, Java, Algorithm design, Computer Building, Python, Unity (beginner), VHDL (beginner)

Interests: Dungeons and Dragons, A Cappella, Machine Learning, Board Gaming, Renewable Energy