Zachary David Johnson

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Education

Dartmouth College - Hanover, New Hampshire   Expected June 2020
Computer Science   GPA: 3.76/4.0
Activities: Computer science tutor, club tennis, parliamentary debate, improv comedy
Relevant courses: Introduction to Programming and Computation, Problem Solving via Object-Oriented Programming, Smartphone Programming, Web Development, Software Design & Implementation

Work Experience

Dartmouth DALI Lab - Hanover, New Hampshire   April 2018 - Present
Developer
- Developed front-end for all core features of social-media platform for government accountability in the Democratic Republic of the Congo
- Focused on news feed and messaging features, allowing users to post, comment, like, filter posts by location, and email other users (Kotlin, Apollo-Client-Android, GraphQL, MongoDB)
- Currently being launched in the Congo to 5,000 users in partnership with the Ministry of Education

Dartmouth Robotics Laboratory - Hanover, New Hampshire   January 2018 - April 2018
Undergraduate Researcher
- Developed pipeline to compare Leap Motion hand-data to database and output result to web app (Java)
- Built Microsoft Hololens app to display signs as 3D holograms on which users can overlay their hand (Unity, C#)
- Developed entire drawing app where users can draw, erase, change pen-size and import shapes (HTML, CSS, Javascript)

RI General Treasurer's Office - Providence, RI   June 2017 - August 2017
Policy Intern
- Investigated state solutions for financing school construction and for making college affordable
- Developed findings reports which I gave directly to the head of policy

Projects

DBAid   https://github.com/dartmouth-cs52-18S/project-client-dbaid
Javascript, React Native, MongoDB
- In team of 6, developed cross-platform app designed to promote sharing of Dartmouth's dining dollars
- Handled profile-picture selection and back-end image storage using base64-encoded strings
- Launched post-view feature which allows users to click on a listing and learn more information

Dartmouth Drinks   https://github.com/zjohnson5455/dartmouth-drinks
Java, XML, Google Firebase
- In team of 3, developed android app designed to curb dangerous drinking behaviors on college campuses
- Handled basic design setup, sent push notifications when BAC reaches the legal limit
- Built geofencing system that texts party hosts when an attendant becomes dangerously intoxicated

Rhode Island Center for Cognitive Behavioral Therapy   https://github.com/zjohnson5455/RICBT
Swift, Google Firebase
- Independently built iPhone app for psychology practice.
- Launched features allowing patients to reflect on the day, learn about clinicians and sign up for group workshops

Languages

Experienced	Competent	Familiar
Java, Python	HTML, CSS, Javascript	Swift, Kotlin, C, Bash