

# Derek Xu

Software Engineer

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## EDUCATION

### University of Waterloo

2017 - 2022

Candidate for Bachelor of Software Engineering

### Colonel By Secondary School

2014 - 2017

Completed International Baccalaureate Diploma with a score of 39

## PROJECTS

### FluxNote - *HTML5 + Javascript*

- Made for Electric City Hacks 2017
- Portable graphics tablet
- Uses the magnetometer in any smartphone to detect the position of a magnetic pen (HTML5 Sensor API)
- Connects to a web app which lets the user draw

### Finden - *React Native + Redux*

- Made for Hack the North 2017
- Scavenger hunt game where players take pictures of targets
- Developed the mobile application
- Built UI using React Native, state handled with Redux
- Connected it to our team's backend which handled image processing, dynamic scoreboard, authentication, etc

### Piano Chord Pads - *Java, Native Android*

- Created a tool for musicians and songwriters
- Allows users to choose six chords that can be played by tapping on pads
- Has received over 1000 downloads on the Google Play Store

### Derek Xu Music Reviews - *React+Redux, Semantic, Spotify API, Flask*

- Music review website where I make lists of music that I enjoy
- UI made with React+Redux, Semantic UI for styling
- Flask backend to gather album data from the Spotify API

## SKILLS

### Application Development

C/C++, OpenFrameworks, Java,

Processing, React Native

### Web Technologies

React, Redux, JavaScript, jQuery,

HTML + CSS, Python, Flask

## AWARDS

2017 Electric City Hacks 3rd Place

2017 ECOO Programming Contest Finals 9th Place

2017 ECOO Programming Contest Eastern Ontario Regional Champions

2017 ECOO OCDSB Boardwide Champions

Grade 12 Computer Science (ICS4U) Subject Award

Grades 9-12 OCDSB Silver Medal

Maintained an average of at least 90 during all four years of high school

## ALGORITHM CONTESTS

Top 20% of users on CScademy

98th percentile in HackerRank algorithm contests