

# THOMAS WILDENHAIN

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## EDUCATION

Carnegie Mellon University, Pittsburgh, PA

Bachelor of Science, Computer Science. May 2020

Honors: Dean's List Fall 2016 and Spring 2016

QPA: 4.0

Bishop Canevin High School, Pittsburgh, PA

Honors: Class of 2016 Valedictorian • National Merit Finalist • Carson Scholarship • AP Scholar with Distinction • National Honor Society

## EXPERIENCE

**JavaScript Developer and Robotics Tutorial Writer**, BirdBrain Technologies (June 2015 – present)

- Develop a web application to program robotics kits
- Work closely with Android and iOS back-end developers
- Write JSDoc comments and ReadMe file
- Came up with app idea as a side project while writing tutorials for BirdBrain
- Launched the BirdBlox app within a year of starting the project

**Assistant to the Technology Director**, Bishop Canevin High School (May 2015 – present)

- Prepare, capture, and deploy Windows image for school computers
- Created an Access Web App with macros to assist management of student iPads
- Wrote documentation for image deployment and iPad management

**iOS and Android App Developer**, subcontractor for Sintek Solutions (December 2016 – July 2017)

- Developed iOS and Android checklist apps for United Way of Southwestern Pennsylvania
- Implemented Facebook and Google sign-in to enable synchronization with a backend server

**Teaching Assistant**, 15-251 Great Theoretical Ideas in Computer Science (August 2017 – Present)

## PROJECTS

**Teach Tiles**, HackCMU team of 3 (September 2016)

- Augmented reality teaching app prototyped for 2016 HackCMU competition
- Won award for best approach to security or education, presented by DUO

**Portal Gun Augmented Reality App** (June 2016 – August 2016)

- Developed an AR app for an elaborate scavenger hunt based on Valve's Portal 2 game
- Video: <http://tomwildenhain.com/projects.html#portalgunar>

**Scheduling Application for Career Day** (June 2014 – June 2015)

- Bishop Canevin's Guidance Department previously handled career day preferences by hand
- Worked with Guidance Department to develop an application to automate this process
- Designed algorithm to best match students with preferred sessions
- When used, all students received their top choice and the majority got their top two

## ACTIVITIES

**ScottyLabs** (August 2016 – present)

- Developed Android app for Print API
- Gave talks on Web Development and Augmented Reality

**Plaid Parliament of Pwning**, Capture the Flag (CTF) team (August 2016 – present)

- 5/61 on new member leaderboard

**CMU Puzzlehunt** (August 2016 – present)

**SKILLS**: JavaScript, Java, Python, C#, Swift, Unity, SML, C, PowerPoint Turing Machines