

Thomas Wildenhain

tomwildenhain.com

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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 (starting August 2017)

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, Swift, Python, Unity, C#, SML, C