THOMAS WILDENHAIN

(724)-249-7987 • wildenhaint@gmail.com • tomwildenhain.com

EDUCATION

<u>Carnegie Mellon University, Pittsburgh, PA</u>	
Bachelor of Science, Computer Science. May 2020	
<u>QPA</u> : 4.0 • Dean's List all semesters	
Bishop Canevin High School, Pittsburgh, PA	
Honors: Class of 2016 Valedictorian • National Honor Society President	
EXPERIENCE	
Microsoft Software Engineer, Designer Team	(October 2021 – Present)
Microsoft Software Engineer, AI Platform Team	(June 2020 – October 2021)
Capital One Software Engineering Intern	(June 2019 – August 2019)
 Created an automated rehydration framework for updating Amazon EC2 in Automated deployment of AWS autoscaling groups (ASG), load balancers Implemented a blue/green deployment strategy to easily revert back to old software failed 	stances (ELB), and cloudformation I infrastructure if updated
Dropbox Software Engineering Intern	(May 2018 – August 2018)
 Developed an improvement to the iOS Dropbox Camera Uploads feature Wrote C++ logic and frontend Swift/Objective C code 	
Teaching Assistant, 15-251 Great Theoretical Ideas in Computer Science	(August 2017 – May 2018)
 Developed software for scheduling recitations 	
JavaScript Developer and Robotics Tutorial Writer, BirdBrain Technologies	(June 2015 – August 2017)
 Designed, prototyped, and developed a web application to program robotic Launched the BirdBlox app within a year of starting the project 	es kits
PROJECTS	
Terminal Live Games-Based AI Coding Competition, Team of 3	(March 2019)
 Wrote an AI to compete in tower-defense style competition 	
 Developed an algorithm to predict and counter enemy attack strategies Won first place (\$8,000 prize) 	
Keep Coding and Nobody Explodes, Puzzlehunt CMU	(February 2019)
 Created an interactive web-based puzzle for a CS-themed puzzlehunt (<u>http</u>) Wrote code to automatically solve and generate puzzles (using a dynamic Rated by participants as one of the most fun puzzles in the hunt 	://bit.ly/cspuzzle9) programming algorithm)
Recitation Scheduling Software	(August 2017)
 Used the maximum flow matching algorithm to match students and TAs to Experimented with using the Z3 constraint satisfaction library to create sch Provided an interface for visualizing student preferences and available tim 	o recitation times hedules es
ACTIVITIES	
CMU Puzzlehunt Co-President and Puzzle Author	(August 2016 – present)
 Lead weekly meetings and write puzzles for our bi-annual event that attrac 	ts over 200 participants
ScottyLabs	(August 2016 – present)
 Developed an Android app using ScottyLabs Print API to enable students to Gave talks on Web Development and Augmented Reality 	o print from their phones