

Education

- Class of 2023 Vanderbilt University, Computer Science Major
- CS courses so far: CS 2201 Program Design and Data Structures and CS 3251 Intermediate Software Design, both using C++
 - Current GPA: 3.8
 - Planning to graduate early in 2022
- Class of 2019 High Technology High School

Job Experience

- Jan–June 2019 High School Software Engineering Intern – Bloomberg
- Worked with Python, SQL, and other languages to create an application under consideration for use by Bloomberg clients
 - Worked with both back-end and front-end programming
- June–Sep 2018 Ride Operator – Six Flags Great Adventure

Volunteering Experience

- Sep 2019– Team Member – Change++
- Student organization at Vanderbilt that writes code for charities
 - Using React to create a web version of The Game Of Rent, a game designed to raise awareness for affordable housing
- 2017–June 2019 Member – Project Spark
- Worked in a small team to design a programming curriculum taught in 2 Indian schools and to teach three 6-week robotics classes at our local library

Other Experience

- Jan 2018–June 2019 Rogue Robotics Club
- 2nd place, Pennsylvania Regionals, *Ranger Class, 2018 MATE Robotics Competition*
 - 5th place documentation award, Internationals, *Ranger Class, 2018 MATE Robotics Competition*
 - Elected software lead, 2018–2019
 - ROV Pilot, 2019
- 2018 Splitspace
- Worked with Maxwell Hampel to create an arcade-style Android app
 - 500+ installs
 - <https://play.google.com/store/apps/details?id=com.samalws.splittr>
- June 2019– Uwecode
- Writing a compiler using Haskell for Uwecode, a functional programming language I'm making that's based entirely in lambda calculus
 - <https://github.com/samalws/uwecode2>
- Sep 2017 Blockat
- At PennApps XVI, worked with Eric Zheng to create a block-based coding website designed to teach people how to use Python; code in the block-based language has the same text as equivalent Python code
 - Project advanced to top 60
 - <https://github.com/samalws/pennapps>
- May 2018 Eth-forum
- At AngelHack 2018, worked in a group to create an online forum hosted on an Ethereum test network
 - We created both the backend and a webpage that connects to the forum using the MetaMask extension
 - <https://github.com/samalws/eth-forum>