I am a motivated, well-rounded student who excels in public speaking, programming and athletics. Sports and robotics have given me experience working in groups, while independent programming projects have given me the initiative to see projects to completion. You can learn more about my projects at isaaczinda.com

**Education**

Junior at Seattle Academy High School with a 3.96 GPA. Workload includes 5 honors classes, Calculus, Debate, and multiple programming classes

**Experience**

Volunteer Wallingford Senior Center web designer: Created donate popup, fixed page layout, writing site content

Building website to control waterfall projection system in school lobby. Popular students’ posts to the site are displayed on the waterfall. Server written in Node.js, webpage created with JQuery

**First Tech Challenge Robotics Club (2012 – 2015)**

Last two years on varsity team, 2015 head programmer on varsity team. Worked with a group of six to eight students to design and fabricate a robot from scratch in three months. Projects Included:

* Wrote autonomous code utilizing gyroscopic, color, and inferred sensors as well as encoders
* Wrote a library to interface with PID motor controllers through I2C industry standard protocol
* Built robot’s entire telescoping arm and collaborated with teammate to build robot’s ball collector

Awards:

* + Won district competition and proceeded to place fifth in state in 2014
  + Qualified for state 2015, advanced to superregionals after winning second place in state
  + One of three Dean’s List Semifinalists (for outstanding individuals in robotics) 2015 district competition

**Independent Projects**

* Taught myself Javascript, Node.js, C#, Python, and C
* Built a robot controllable over intranet with arm and live video streaming. Video protocol written from scratch in Node.js and C#
* Created 3D library from scratch in Python. Supports wireframe rendering from STL files, matrix rotation and translation. Uses NumPy for hardware acceleration

**Programming Classes**

* Took Seattle Academy Software Development class twice, became teacher’s unofficial assistant and wrote all server-side code for class-wide projects in Node.js the second year
* Two week DigiPen programming class, built version of popular game *Centipede* in C# for class final project
* Built inverse kinematic robotic arm as independent project in robotics class. Arm controlled by computer over Bluetooth running C server-side and C# client-side

**Extra-Curricular and Hobbies**

Piano: Twelve years of weekly lessons and bi-annual recitals

Crew (four person boat): 2013 won at Regionals. 2014 second and third at Brentwood, third at Regionals

Ultimate Frisbee: Played for junior varsity and varsity 2013, varsity team during both 2014/15

Service: Two week New Orleans service trip for house building and wetland restoration 2014

French: 3 years high-school French (currently French 5), hosted French exchange student 2013

Debate: Prepare arguments on new topic with partner each month, compete in bi-annual tournaments