EDUCATION

Purdue University — May 2020
- Major: Bachelor of Science in Computer Science
- Cumulative GPA: 3.4 / 4.0

Oswego East High School — May 2016
- Cumulative GPA: 4.4 / 4.0
- Class Rank: 8 / 560

EXPERIENCE

Analytics Engineering Intern at TransUnion LLC. (Summer 2017, Summer 2018)

- Engineered custom Spring Boot/MVC fileserver for hosting OpenAPI documents backed by PostgreSQL and crafted Angular frontend implementing SwaggerUI for viewing internal REST API documentation.
- Designed and implemented Java library for Tableau Server API.
- Performed unit and integration testing of code.
- Practiced Agile software development process.

FIRST Robotics Competition Team Gear It Forward (August 2012 to July 2016)
Gear It Forward is a world-class FRC robotics team, producing industrial-grade machines

Assistant Team Captain 2016
- Contributed to development of physical constraints and requirements of the robot.
- Oversaw the fabrication teams through the prototyping phase, providing inter-team communication and management of time and resources.
- Oversaw development of robot code for teleoperator functionality.
- Programmed autonomous functions of the robot, consisting of 4914 lines of code.
- Trained younger team members in different types of closed loop control.
- The team qualified for World Championships and was a semifinalist in Archimedes Division.

Programming Subteam Lead 2015
- Mentored FIRST Tech Challenge Team 10268 in robot design and software development.
- Transitioned team from LabVIEW to Java. Taught a team of seven members the basics of Java so that they may practice programming robot functionality on previous robots.
- Programmed all autonomous and teleoperator robot functions, consisting of 1652 lines of code.
- The team qualified for World Championships and placed fourth overall at the event.

Programming Subteam Lead 2014
- Programmed all autonomous and teleoperator robot functions in LabVIEW.
- Taught myself Java programming through online resources.
- Developed Java desktop scouting application to collect performance data of other robots in competition.
- The team was a finalist at the Midwest Regional Competition.

Programmer 2013

- Developed autonomous commands and closed loop control mechanisms in LabVIEW.
- The team qualified for World Championships and was a quarterfinalist and alliance captain in Galileo Division.

PROJECTS

MyloBot (Fall 2016 to Present) *Individual – Personal*
An automated Discord bot for playing music, subscribing to media, and performing administrative actions within a server.

Meteor Defense (Spring 2018) *Individual – CS 25200 Systems Programming*
A *Space Invaders*-like JavaScript web game in which players shoot down incoming meteors. Hosted on Google App Engine.

Shell (Spring 2018) *Individual – CS 25200 Systems Programming*
Developed custom implementation of a Shell for Linux, based on Bash and Zsh.

Webserver (Spring 2018) *Individual – CS 25200 Systems Programming*
Created a concurrent webserver in C++ for serving static files and running CGI scripts.

CACTUSS (August 2015 to May 2016) *Group*
Consumer Analytics and Cart Tracking Utilizing Signal Strength. Designed physical prototype and software solution for positional tracking of a shopping cart using a WiFi network.

HONORS

Purdue University Dean's List
Purdue University Semester Honors

TECHNOLOGIES

Languages:
Java, C/C++, Bash, Python, TypeScript, Scala, LabVIEW

Operating Systems:
MacOS, Ubuntu Linux, Windows

Tools and Frameworks:
IntelliJ IDE, Eclipse IDE, Agile Central, Git, Maven, Gradle, JUnit, Spring Boot/MVC, Angular