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