# Education

## University of Massachusetts Lowell, Lowell, MA

Candidate for a Bachelor of Science in Computer Science, **December 2019**

**GPA:** 3.472/4.00

**Awards**: Dean’s List (4x), Honors College

**Courses:** Internet & Web Systems I (Graduate), Machine Learning, Analysis of Algorithms, Object-Oriented Programming I & II, Mobile Robotics I, Computer Architecture, Organization of Programming Languages, Assembly Language Programming, Linear Algebra I, Probability & Statistics, **Activities:** Web Development Club

# Technical Knowledge

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| **Client:** | React.js, Angular, JavaScript, HTML, CSS | **Server:** | Java, C, C++, Node.js, Spring Boot, Apache Spark, Kafka, Airflow |
| **Database:** | PostgreSQL, MySQL, MongoDB | **Cloud:** | GCP – Container Registry, Cloud Run, AWS – S3, EC2 |

# Work Experience

## Houghton Mifflin Harcourt, Boston, MA June 2018–August 2019 Software Engineering Intern

* Created a RESTful web service using Spring Boot, MySQL, and Redis that allows teachers to manage proficiency bands that help determine how students are performing.
* Built an Apache Airflow DAG workflow that keeps two different databases in sync so that new microservices can access accurate data. The workflow was deployed to EC2 and leverages Kafka and Spark to update the databases.

## Draper, Cambridge, MA January 2018–May 2018 System Software Development Co-op

* Worked on the Dream Chaser Shuttle's Flight Navigation software by implementing new features and tests in Python and C to improve performance of the L2 Cache, ECC memory, and PIC.
* Developed a project that sets up a UDP socket to send flight commands from a certificated device to the flight computer.

## CenturyLink, Framingham, MA May 2017–August 2017 Software Engineer Intern

* Converted the Virtual Machine Placement solver project from a command line tool to a web service. Developed using a RESTful web server leveraging Jersey and PostgreSQL. The project helps calculate the best racks for old and new Virtual Machines.

## Dassault Systémes, Johnston, RI May 2016–August 2016 Software Engineering Intern

* Wrote tests using the Sahi framework, which utilizes Python and JavaScript, to ensure cross-browser compatibility of the 3DExperience web platform.

**Projects**

## Fantasy Football Suite Summer 2019

* Spring Boot, MySQL, React, Docker project deployed to Google Cloud Platform Container Registry and Cloud Run.
* Allows multiple users to participate in a fantasy football snake draft. Users can pick players and post to the draft message board. Link to website is on my personal website.