# ANDREW **EGGLESTON**

**Software Engineer**

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## WORK EXPERIENCE

### Northrop Grumman
**Software Engineer**

Created an employee management database. Gained experience in **Java EE**, **angular.js**, and **SQL**. Utilized Agile software development process to organize tasks.

📅 June 2019 - August 2019          📍 Baltimore, MD

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### Genelec Inc.
**Technician**

Designed systems for routing audio and video from production to editing. Created network architecture using **Dante** protocol and DHCP. Created software which managed DSP calibration hardware installed in speakers.

📅 March 2020 - Present          📍 Natick, MA

## PROJECTS

### Death By Dagger

**github.com/andreweggleston/DeathByDagger**

A fun game, updated for the electronic age. Made use of the **Slack API** to keep players updated on their status in the game. Created using **Go**, with data hosted on **PostgreSQL**.

### Javascript Raytracer

**github.com/andreweggleston/js-rtx**

A small **p5.js** example created to demonstrate how raytracing can be used to make a depth effect when rendering images a la DOOM. Learned about browser rendering & associated pipelines.

### Observer

**github.com/andreweggleston/observer**

A web application designed to view Dota 2 replays. Replays consist of **ProtoBuf** network packets from all players. **Observer** translates this network data into meaningful information such as player location and state. Written in **Go**, frontend with **React**.

### WHS Planner

**github.com/s0urc3d3v3l0pm3nt/whs_planner**

A client application developed to provide students with a simple schedule planner and organizer. The application features an intuitive calendar, an automatically updating schedule, and a live news feed. The app was created using **Java**, with **JavaFX** as a graphical framework.

### Garage Door Opener

A small script which hosts an **Apple HomeKit** server, running on a Raspberry Pi Zero W. The server is implemented in **Rust** and exposes an otherwise 'dumb' garage door as an 'accessory' that can be controlled by ones phone. The Pi Zero is wired to the garage door using the Pi's builtin GPIO ports which the script controls through Linux's /sys/ directory.

## OBJECTIVE

*Seeking a co-op / internship opportunity for Spring and/or Summer 2022.*

## EDUCATION

### Rochester Institute of Technology
**BS in Computer Science**

📅 Sept 2018 - Sept 2019

### MassBay Community College
**AS in Computer Science**

📅 May 2022

## COURSEWORK

Operating Systems
Mechanics of Programming
Introduction to CS Theory
University Physics 1 & 2

## SKILLS

**Clearance Level - Secret**

**Languages**

Go   Python   Java   C   Javascript

**Tools**

Linux   Agile   git   SQL/OracleDB
Bash   Docker   Kubernetes   Node.js
OIDC   LaTeX

## ACTIVITIES

### Computer Science House
**Member**

📅 September 2018 - Present

Living and learning community focused on growing member's careers and knowledge.

## AWARDS

### President's Scholar
**R.I.T**          📅 Spring '18