Griffin Beels

Software Engineer

Education

May 2017 -May 2021

Brown University, Providence, RI

Sc.B, Computer Science. Concentration GPA: 3.9

Relevant Coursework: Distributed Systems; Computer Vision; Software Engineering; Computer Graphics; UIUX; Algorithms and Data Structures; Linear Algebra; Probability.

Experience

Jun 2020 -Aug 2020

Software Development Engineer Intern

Amazon - Seattle, WA

- Worked on Digital Commerce Subscription Team.
- · Refactored monolithic classes and JUnit testing suite for long-term maintainability and extensibility, impacting over 30,000 lines of code.
- Reduced team's operational overhead by 99% by delivering a library that uses an internal plugin framework to execute client defined runtime logic.

May 2019 -Aug 2019

Software Engineer Intern

MassDiGi - Worcester, MA

- Led 6-person team as producer and software engineer for full mobile pre-production and production cycles for Save the Flame! (iOS / Android).
- Optimized Unity object procedural generation in C# through pooling and customizable cumulative probability distributions.
- Minimized overhead for designers through Unity inspector integration.

May 2020 present

Head Teaching Assistant

Brown University - Providence, RI

- · Managed staff of 7 UTAs for Introduction to Computer Graphics with Co-HTA.
- Designed digital learning solution for 100+ students, managed course logistics, held office and lab hours, and maintained course website.

Technical Projects

May 2020

• Emotion-based Snapchat Filter. Trained Convolutional Neural Net to detect emotion, used to dynamically change a Snapchat filter in real time. Python.

Apr 2020

• Raft. Collaborated with teammate to create fault-tolerant distributed consensus protocol according to Raft paper, which enables scalable server architecture to agree on values. Go.

May 2019

• Twitch Match. Designed responsive frontend experience using Bootstrap and the Twitch API, allowing Twitch streamers to optimize growth using user statistics. Java, JS, HTML5, CSS3, SQL.

Nov 2018

• C++ Ray Tracing. Implemented raytracing using OpenGL for scenes composed of cubes, spheres, cones, and cylinders. C++.

Personal Info

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Languages, Frameworks, and **Technologies**

Java, C++, C#, Go

Python, JavaScript, HTML / CSS, C, SQL

Spring Framework, JUnit, Mockito /PowerMock, Git, Unity, Gradle, jQuery, React Native, **Bootstrap**



Leadership **Experience**

May 2018 - present

Brown Esports - President and Software Engineer

- Increased membership from 100 members to 1000 members, leading 20-person executive board.
- Secured \$5000 of funding through University Finance Board for projects and equipment.
- · Constructed front-end for Brown Esports website (brownesports.org).