

# Ryan Callahan

R1Callahan@student.bridgew.edu • (978) 995-6287 • <https://ryancallahan312.github.io/Portfolio/>



## EDUCATION

---

**Bridgewater State University**, Bridgewater, MA

Anticipated Graduation – May 2022

Bachelor of Science degree in *Computer Science*

Minor in *Mathematics*

**Honors:** Dean's List, Major GPA: 4.0, Overall GPA: 3.6

**Coursework:** Data Structures and Algorithms, Computer Science I & II, Intro to Computer Organization, Networking

## RELATED EXPERIENCE

---

**Full Stack Software Development Intern, Sovos Compliance**, Wilmington MA

June 2019 – present

- Upgraded and developed value added features in the full stack ( React, Node, Spring, Asp.Net, PLSQL)
- Overhaul table filters UX by adding autofill options, filter buffering, error checking, and sql injection checking
- Reworked api calls to send serialized json rather than comma delimited strings
- Modeled relational database schemas and created repositories for version control on those models
- Created a file uploading component to allow users to attach their signature to documents
- Created and implemented ad hoc customer data reports using jaspersoft reporting

**Peer Assist Leader, Department of Computer Science**, Bridgewater State University

January 2019 – present

- Assisted up to 20 students weekly with questions, visualization of coding basics, and homework assignments for Computer Science I
- Hired based on recommendation of Computer Science faculty and academic performance in major

**Concussion Conscience, Hack CEWIT Hackathon**, Stony Brook University, [Link to Repo](#)

February 2020

- Created MVP for a concussion recovery tracking system
- Collected users reaction time during times where they were not concussed and used that data to compare against reaction times while concussed in order to track recovery
- Used PayFone's authentication api to log users in based on their phones sim card and guarantee secure log in
- Created sketch for possible endpoints used to connect with currently existing online health care platforms
- Created with React, Express, and MongoDB

**Losing The Lyrics**, Personal Project, [Link to Repo](#)

January 2020 - present

- Created a game based on the tv game show *Don't Forget The Lyrics*
- Players join a room then are given part of a song to listen to with lyrics on the screen then are prompted to finish the line by singing into their devices microphone
- using Nextjs, Express, and Socket.io while leveraging the Spotify api

**Defeating Mac Address Randomization**, Directed Study, [Link to Research Summary](#)

November 2019 - May 2020

- Collected mac address data, via networking tools built into Parrot Linux, by monitoring public areas on campus
- Researched vulnerabilities in MAC address technologies and failures of randomization technologies
- Concluded ways that IEEE could update the current MAC address standard to include randomization and mitigate vulnerabilities

## TECHNICAL SKILLS

---

**Languages:** Java - Python - JavaScript - PLSQL - C#

**Libraries:** React - Redux - Redux-forms - Spring -.Net Core 3.1 - .Net Framework 4.8 - Asp.Net

**Other:** Rest Api - Material UI - OracleDB - micro-services - Swagger - OpenApi 3 - Linux - Git - Scrum - Agile - Jira