RYAN CALLAHAN

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TECHNICAL SKILLS

Languages	Java, JavaScript, C#, Python, HTML5, CSS, SQLite, PLSQL
Frameworks and Libraries	React, Spring, .Net 5, Node.js, Asp.Net, Socket.io, Redux, Next.js, Material UI
Other Skills	Docker, micro services, frontend, seo, backend, continuous integration, testing

EDUCATION

Bachelor of Computer Science, Bridgewater State University — Expected Graduation — Dec 2021

Minor in Mathematics
Major GPA: 3.9 — Overall GPA 3.4
Board Member of Computer Science Club and Computer Science Curriculum Council
Relevant Coursework: Senior Software Engineering, Database Systems, Object-Oriented Software Engineering, Data Structures and Algorithms, Networking

EXPERIENCE

Full Stack Software Development Intern — Jun 2019 — Sept 2020
Sovos Compliance — *Wilmington, MA*

- Co-Led development in a cross-functional team for a Java Spring Framework plugin architecture based RESTful API micro service to integrate with many existing third party payment API and FTPS services (ex. Wells Fargo) to create solutions for clients transfer money to regulatory accounts
- Ported and Containerized all existing .Net Framework applications to .Net Core 3.1 using Amazon Porting Assistant and Docker to enable further growth from future .Net versions performance gains
- Refactored all UI and RESTful API data table filters from 8 inconsistent, unstructured CSV filters 42 standardized filters using serialized JSON causing end user experience and usability optimizations
- Created a responsive React file uploading component, with test strategies in mind, for users to attach their legal signature en-mass to documents
- Created customer data and usage reporting leveraging Jaspersoft reporting and file generation micro service

Teaching Assistant, Computer Science I — Jan 2019 — Present
Bridgewater State University, Department of Computer Science, — *Bridgewater State University*

- Lead 3 weekly hour long supplemental classes with smaller class sizes to focus more on individual student needs
- Enabled reserved students to ask questions during class time by acting as a proxy

PROJECTS

Losing The Lyrics, Personal Project, Source Code Available On Github — Link To Repo — Link To Demo

- Created a game based on the TV game show Don't Forget The Lyrics where users hear part of a song then are prompted to finish the line by singing into their devices microphone
- Using React, Next.js, Express, and Socket.io while leveraging the Spotify Web API for playback

Highlight-inator, Personal Project, Source Code Available On Github — Link To Repo—Link to Demo

- Generates timestamps for a live stream recording then automatically edits the recording.
- Built with Asp.Net Core, React, and FFMPEG. Leveraging Azure services, ex. message queue, blob storage.

Defeating MAC Address Randomization, Academic Research Project — Link To Summary

- Collected MAC (Media Access Control) address data using Wireshark, Kismet, and Aircrack-ng
- Researched vulnerabilities in MAC address technologies and failures of randomization technologies