

<b>Atlanta, GA, USA</b>	<b>Georgia Institute of Technology</b>	<b>Aug. 2015 - Dec. 2019</b>
<ul style="list-style-type: none"> <li><b>Bachelor of Science in Computer Science, Minor in Physics</b></li> </ul>		major GPA: 4.0/4.0, cumulative GPA: 3.97/4.0
<ul style="list-style-type: none"> <li><b>Relevant Coursework:</b> OOP, Algorithms &amp; Data Structures, Analysis of Algorithms, Computer Organization, Operating Systems, Computer Networking, Relational Database, Information Security, Computer Simulation, Machine Learning</li> </ul>		

<b>Frontend Developer, Intern</b>	<b>Pegasus CRM, Decatur, GA</b>	<b>Jan. 2018 - May. 2018</b>
<ul style="list-style-type: none"> <li>• Provided proof-of-concept reimplementation of existing UI features in <u>Vue.js</u> components for the team to evaluate adoption.</li> <li>• Implemented UI designs for the Laravel Web application using <u>Blade templates</u> and <u>Sass/SCSS</u>.</li> <li>• Added resizing and drag-and-drop features to existing data tables using <u>vanilla JavaScript (ES6+)</u>.</li> <li>• Expedited bug fixing process by tracing back-end <u>PHP</u> code and identifying reported bugs that originate in the backend.</li> </ul>		

`//github.com/GalMunGral`

- Utilized Core Motion framework on iOS (Swift) and Sensor framework on Android (Kotlin) to detect acceleration.
- Created GitHub-style SVG calendar heat map based on backend (mock) data using D3.js.
- Embedded the visualization in mobile apps using WebView (Android) and WKWebView (iOS).
- Implemented the back end in Go (golang) with a MySQL database.

- Recreated playback/volume controls in React, using Spotify Web Playback SDK under the hood.
- Established OAuth 2.0 authorization flows to access Spotify Web API in Python using Flask.

- Partially replicated the UI using Angular and Sass/SCSS. Implemented video streaming using Shaka player and FFmpeg.

- Designed a mechanism to submit and evaluate scripts and send back outputs/errors from server to display in browser.
- Implemented using a parent Node.js server process that communicates with a Python interpreter child process.

- Implemented the UI using React and Redux, and the REST API using Express.js and MySQL database.

- Created a login page that gets notified by the Node.js backend through Socket.IO when user confirms on mobile clients.
- Crafted push notification requests to Firebase Cloud Messaging and Apple Push Notification Service in HTTP/2.

**Web Components Router** *Client-side routing using Web Components and native ES modules (Proof of Concept)*

**WolframAlpha CLI** *Command-line utility for mathematical computations based on Wolfram|Alpha XML API*

**Todo** *To-do apps written in React Native, Flutter (Dart), SwiftUI, UIKit (Objective-C), etc.*

**Proficient:** Bash, Vim, Git, JavaScript (ES6+), HTML, CSS **Familiar:** C, Java, Swift, Python, MATLAB, React.js, Redux.js, Angular.js, Vue.js, jQuery, Bootstrap, Node.js, Express.js, Flask, SQL **Used:** Objective-C, C#, Go (golang), Kotlin, Dart, TypeScript, Sass/SCSS, PHP, Socket.IO, Android, iOS (UIKit & SwiftUI), React Native, Flutter, Xamarin, Jupyter Notebook, NumPy, SciPy, SymPy, Matplotlib, LaTeX