

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY (cumulative GPA: 3.97/4.0, major GPA: 4.0/4.0) *Aug. 2015 - Dec. 2019*
Bachelor of Science in Computer Science, Concentration in Information Internetworks, Minor in Physics
Areas of interest: *front-end web development, mobile/desktop development and UI technologies in general.*

EXPERIENCE

Front-end Developer Intern *PegasusCRM, Decatur, GA* *Jan. 2018 - May. 2018*

- Improved web page responsiveness by reimplementing jQuery DataTables as a Vue.js component.
- Enhanced user experience for adding items to lists by adding drag-and-drop/resizing features using vanilla JavaScript.
- Reduced SCSS compilation time by over 90% by replacing Ruby Sass with LibSass/SassC in build configurations.
- Participated in UI design decisions and translated designs into Laravel Blade templates and SCSS/CSS.
- Debugged backend Laravel/CakePHP code and fixed typos on production servers through SSH.

SOFTWARE PROJECTS

galmungral.github.io *Portfolio website and web app multiplexer*

- Devised a multiplexing mechanism to allow multiple web apps running independently on different internal ports to be accessible through a single port exposed on Heroku servers by mapping port numbers to URL path prefixes.
- Implemented the port-path translation and HTTP traffic routing in Node.js.
- Set up multiple web apps as well as the multiplexer inside a Docker container to be deployed on Heroku.
- Designed and handcrafted the homepage using vanilla HTML/CSS/JavaScript.

Werkestation File explorer and text editor built with Electron, React, and styled-components

ReSpotify Replica of Spotify UI built with React, CSS, Flask and Spotify Web API/Playback SDK

NoTube Replica of YouTube UI built with Angular Material, SCSS and Shaka player

MARTA Passenger Traffic Single-page application built with React Bootstrap, Redux, Express.js and MySQL (course project)

Todo-X To-do apps built with various native and cross-platform technologies such as Flutter, React Native and SwiftUI

TwoFactor *Two-factor authentication system (proof of concept)*

- Crafted HTTP/2 requests to Firebase Cloud Messaging/Apple Push Notification service to dispatch push notifications.
- Used Socket.IO to notify the login page when user confirms login on the mobile app.

SitBit *Sitting time recorder (proof of concept)*

- Utilized Core Motion (iOS) and sensor framework (Android) to detect vertical acceleration and MySQL to store sensor data.
- Created a data-driven SVG calendar heatmap using D3.js and embedded it in mobile apps using webviews.

OpenEval *Mid-term course survey (Junior Design project, in progress)*

- Integrated Georgia Tech Login Service into the Angular application using a Node.js back end.
- Utilized ldapjs to retrieve user information from Georgia Tech's public LDAP server.
- Created UI components using Salesforce Lightning Design System.

WebREPL Online Python shell that executes user-submitted code using a Python child process on the Node.js server

WebSocket Server A Node.js implementation of the WebSocket protocol

WolframAlpha CLI Command-line wrapper of the Wolfram|Alpha XML API

CleanWaterCrowdsourcing Mobile app built using Google Maps SDK and Firebase SDK (course project)

TECHNICAL SKILLS

Proficient: Bash, Vim, Git, C, Java, Swift, Python, HTML, CSS, JavaScript, TypeScript

Familiar: Node.js, Express, React, Redux, Angular, Vue.js, jQuery, Sass/SCSS, Bootstrap, SQL

Used: PHP, Go/Golang, Kotlin, Objective-C, C#, Dart, Android, iOS, Flutter, Xamarin, Electron, React Native, NativeScript