

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: computer networking, frontend web development and UI technologies in general.

EXPERIENCE

JavaScript (Electron) Developer **Étude (Student Startup), Atlanta, GA** **Sep. 2019 - Present**
 • Delivered critical PDF.js-based features, such as selection highlighting and navigation between search results.
 • Fixed persistent bugs resulted from a race condition between PDF rendering and worker-thread computations.

Frontend 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 list management 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 and styling issues on the production server through SSH.

SOFTWARE PROJECTS

galmungral.github.io *Portfolio website and web app multiplexer* **Jul. 2019**
 • 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.

OpenEval *Mid-term course survey (Junior Design, in progress)* **Aug. 2019 - Present**
 • Integrated Georgia Tech Login Service and Canvas LMS API with the Node.js back end.
 • Created Angular components using Salesforce Lightning Design System.
 • Utilized ldapjs to retrieve user information from Georgia Tech's public LDAP server.

SitBit *Sitting time recorder (prototype)* **Jan. 2019**
 • 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.

MARTA Passenger Traffic Single-page application build with React Bootstrap, Redux, Express.js and MySQL **Oct. 2017**

Werkestacion File explorer and text editor built with Electron, React, and styled-components **Jul. 2019**

ReSpotify Replica of Spotify UI built with React, CSS, Flask and Spotify Web API/Playback SDK **Jul. 2019**

NoTube Replica of YouTube UI built with Angular Material, SCSS and Shaka player **Jun. 2019**

WebREPL Python shell that executes user-submitted code through a Python subprocess on the Node.js server **Apr. 2018**

WebSocket Server A Node.js implementation of the WebSocket protocol **May. 2018**

Todo-X To-do apps built with various UI technologies such as Flutter, React Native and SwiftUI **May. - Jul. 2019**

TwoFactor *Two-factor authentication system (proof of concept)* **Feb. 2019**
 • 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.

TECHNICAL SKILLS

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

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