github.com/GalMunGral

Wenqi He

hewenqi96@gmail.com
+1 (470) 343 - 5207

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 jumping 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/JavasScript.

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