github.com/GalMunGral

Wenqi He

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EDUCATION

B.S. in Computer Science, Georgia Institute of Technology *Aug. 2015 - Dec. 2019*
- Major GPA: 4.0/4.0 (cumulative: 3.97/4.0)
- Minor in Physics (GPA: 3.8/4.0, paper: `https://galmungral.github.io/physics`)

EXPERIENCE

JavaScript (Electron) Developer, Etude (Student Startup) *Sep. 2019 - Present*
- Fixed persistent bug resulted from a race condition between PDF rendering and back-end computation.
- Delivered major PDF-related features such as table of contents extraction and parsing, non-contiguous text selection and highlighting and search result navigation.

Front-end Developer Intern, PegasusCRM *Jan. 2018 - May. 2018*
- Slimmed down front-end code by reimplementing main features of DataTables jQuery plug-in in Vue.js.
- Tanslated UI designs into Laravel Blade templates, SCSS/CSS and Javascript.
- Helped debug backend PHP code and fixed minor issues on the production server through SSH.

SOFTWARE PROJECTS

OpenEval *Mid-term course survey (Junior Design)* *Aug. - Nov. 2019*
- Developed back-end Express routes and front-end Angular services for all main features.
- Designed MongoDB schemas and TypeScript interfaces for application data models.
- Integrated Georgia Tech Login Service, Georgia Tech's public LDAP service and Canvas LMS API.
- Created Angular components using Salesforce Lightning Design System.

galmungral.github.io *Website multiplexer* *Jul. 2019*
- Designed a multiplexing mechanism to allow multiple sites running simultaneously on multiple 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.
- Deployed the Docker container containing the multiplexer and multiple web apps.
- Designed and wrote the homepage in plain HTML/CSS/JavasScript.

TwoFactor *Two-factor authentication system (proof of concept)* *Feb. 2019*
- Set up push notifications using Firebase Cloud Messaging and Apple Push Notification service.
- Used Socket.IO to notify the login page when user confirms login on the mobile app.

SitBit *Sitting time recorder (proof of concept)* *Jan. 2019*
- Utilized Core Motion (iOS) and sensor framework (Android) to detect vertical acceleration.
- Created a data-driven SVG calendar heatmap using D3.js in webview.

MARTA Single-page Application build with React Bootstrap, Redux, Express.js and MySQL *Oct. 2017*
Werkestacion File explorer/editor built with Electron, React and styled-components *Jul. 2019*
WebREPL Web-based Python shell that executes user-submitted code on a Node.js back end *Apr. 2018*
WebSocketServer A Node.js implementation of the WebSocket protocol *May. 2018*
Todo-X To-do list apps built with SwiftUI, UIKit, React Native, NativeScript and Flutter. *Jun. 2019*

TECHNICAL SKILLS

Proficient: TypeScript/JavaScript, SCSS/CSS, HTML, Git, Bash, Vim
Familiar: Node.js, Express, React, Angular, Vue.js, RxJS, Redux, jQuery, Bootstrap, SQL, MongoDB
Used: Common Lisp, C, C++, Java, C#, Objective-C, Swift, Kotlin, Dart, Go/Golang, Python, PHP