

Haorong Li

Web Developer

/Full Stack

EXPERIENCE

Software Developer

satcom direct/Gogo Inc Aug 2021 - Present - 4 years, Ottawa Canada

Full-stack Developer with 4+ years of experience building scalable embedded UIs.

Proficient in designing modern web application architecture using React. Contributed 43% of total code across frontend and web server repositories.

Front end Development:

- Rebuilt and modernized web dashboard architecture using **React**, **Redux RTK**, and **Vite**, improving page load times by **40%** and reducing developer workload by **60%**.
- Implemented **React Lazy** & **Suspense** for dynamic route-based code splitting, enhancing performance.
- Developed **OpenWRT** router UIs, utilizing **React Context** and **Webpack** to create reusable, state-aware components.
- Built secure desktop apps with **Electron**, integrating **JWT** authentication and **MQTT** communication for real-time control and data sync.

Backend & Server Development:

- Created **RESTful APIs** using **Drogon (C++)**, and device interaction logic.
- Transitioned from session-based authentication to JWT-based authentication and validation.
- Designed internal Slack apps using **Slack Bolt** and **Node.js**, automating device password resets and credential management.

Embedded Linux Development:

- Manage **MQTT** servers for authentication of UI connections
- Manage **antenna** and **modem** info publishing and actions by **MQTT** for UI.

EDUCATION

Mobile Application Design & Development

Algonquin College

Sep2019 - Apr 2021, Ottawa, Canada

Dean's Honours: Fall 2019 ([link](#))

GPA: 3.82/4 ([link](#))

EDUCATION

B.A.Graphic Design

South China Normal University

Sep 2013 - Sep 2017, Guangdong China

✉ haorong.dev@gmail.com

☎ +1 (873) 288 4056

📍 Ottawa, Ontario, Canada

🐙 github.com/li000592

🔗 [haorong.netlify.app\(portfolio\)](https://haorong.netlify.app(portfolio))

🌐 linkedin.com/in/haorongli

Code Language

Javascript, Typescript, HTML, CSS,
C++, Bash

Frontend

React.js, Redux RTK, MUI, Vite,
Electron, Taruri, Webpack,
BootStrap, Materialize, Bulma

Backend

Node.js, Drogon (C++), JWT, MQTT

Tools

Git, Bitbucket, Prettier, NPM

Embedded Linux

OpenWRT, Networking (TCP/IP),
Virtual Machine Development

Other

Work with AI
Graphic Design
UI/UX Design

EXPERIENCE

Graphic Designer

YongGuan Decoration CO., LTD

Oct 2017 - Sep 2019, Guangdong China

- Designed business cards and marketing materials
- Created interior renderings and floor plans
- Improved spatial layouts for client projects