

# Bing Syuan Wang (Benjamin Wang)

BingSyuan.Wang@gmail.com | <https://linkedin.com/in/bingsyuan> | <https://benjamin.tw>

## TECHNICAL SKILLS

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Programming Languages: Python, Node.js, Golang, JavaScript, JAVA, CSS, HTML, C++, Verilog, VHDL, MATLAB  
Database/Tools: Linux, MySQL, SQLite, MongoDB, Azure, Google Firebase, Android, DLL, AngularJS, jQuery, Grafana  
Languages: English (Fluent), Mandarin Chinese (Native)

## EDUCATION

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**M.S. in Electrical and Electronics Engineering, University of Washington Seattle, USA** Sep. 2021 - Present

- Focus on Machine Learning, Computer Vision, Deep Learning, Artificial Intelligence, AI for Mobile Robot

**M.S. in Electronic and Computer Engineering, National Taiwan U of Science and Tech, Taiwan** Sep. 2014 - Jul. 2016

- Graduation Thesis: "Design and implementation of a KMA-based real-time transcoding scheme for DASH Streaming System."
- Industry-University Cooperate Research Project: Collaborated with NetApp US, GIGABYTE Taiwan, and QNAP Taiwan to develop new functions for their products.

**B.S. in Electronic Engineering, National Changhua University of Education, Taiwan** Sep. 2010 - Jul. 2014

- Graduation Project: "Analysis of driving conditions and design of driving warning system (DMA)"
- Represented my class of 40 students to compete the national Integrated Circuit Design Contest, Complete Design Award.

## WORK EXPERIENCE

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**Senior Software R&D Engineer, Motherboard Business Unit, AsusTek Inc., Taiwan** Feb. 2019 – Aug. 2021

- Rewrite the ASUS Control Center Server (Golang, Node.js, SQLite, MySQL, SHA256, C++, DLL)
- Develop the ASUS Control Center Web Client (AngularJS, HTML, CSS, JavaScript, C++, DLL), which constructing a web application for IT and centralized management using AngularJS, D3.js, and ag-Grid.
- Rebuilt the Control Center Server on the ASUS motherboard, which is used by the client to access a distant database and control a distant machine, moving from Node.js to Golang to improve the processing time by 20%.

**Software R&D Engineer (Full Stack Engineer), Intelligent Mobile Business Unit, AsusTek Inc., Taiwan** Dec. 2016 - Feb. 2019

- Developed million-value (T.W. dollars) applications on the ASUS Zenfone, including the following:  
ThemeApp Content Management System (CMS) (Node.js, JavaScript, Python, JAVA, MongoDB, jade, jQuery, CSS)
  - Developed a management interface for the developer and third-party provider to upload mobile themes. Used the Akamai Content Distribution Network to provide requested themes to global users on CMS. Handled two million requests per month.
- ThemeAppAutoApply App (JAVA, Python, ADB)
  - Optimized apk performance by 20% for the testing engineers to download all of the theme packs in once onto the mobile phone. Developed a procedure for the testing engineer (with Python scripts and Android apk) to switch the Content Distribution Network and automatically record and report when an error occurs.
- ASUS Safeguard App & Server (JAVA, Azure, Firebase, Node.js, Google Map API, HTML, CSS, JavaScript, NoSQL)
  - Independently developed a default app from scratch to end, which was published on the Zenfone for users to make emergency calls and send real-time locations to others when encountering danger. Reported the location of API by managing sessions and tokens on the Azure server and applied Realtime Database and presented the HTML page on the Google Firebase.
- Rewrote the CMS server from Node.js to Golang by conducting independent study and showing initiative to reduce inefficient processing time by 25%.
- Maintained several ASUS Zenfone servers, such as the ASUS ZenUIStore Server (Azure, Node.js, MySQL), ASUS ZenFone Framework PackageManager (Java), and ASUS Analytics App (Java, Google Analytics, Google Firebase).

**Computex Tester, Microsoft Inc., Taiwan** May. 2016 - Jun. 2016

- Completed the testing and problem resolving of 100+ devices in two weeks during the exhibits of COMPUTEX TAIPEI, a leading global Information and Communication Technology and Internet of Things show.

## EXTRACURRICULAR ACTIVITIES

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**Co-Organizer, Golang Taiwan Community, Taiwan** 2019 - Present

Aim to promote the Golang programming language in Taiwan, along with a community of more than 8,000 members. Cooperate with firms, such as Google, Line, and Dcard, to hold a sharing meeting every month. Coordinated the Gophercon Taiwan 2020 conference as a deputy event coordinator, resulting in the participation of more than 350 people (Golang).

**R&D Programmer, Fourth Place in the Mediatek Digital Social Innovation Competition, Taiwan** 2018

Proposed a solution to help the government solve serious Tesseratoma papillosa pest problems by using a drone to take the pest photos and machine learning to estimate the spread of the insects (Python, Azure). Achieved fourth place out of 323 teams.