

# DONGZHE WU

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## EDUCATION

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### Northeastern University, Silicon Valley Campus

Sept. 2019-May 2021 (Expected)

- M.S. in Computer Systems Engineering - GPA 3.9
- Relevant Courses: Application Engineering & Development, Smartphones-Based Web Development, Data Management & Database Design, Web Development Tools & Methods

### East China University of Science & Technology, China

Sept. 2010-June 2014

- B.S. in Automation
- Relevant Courses: Java Programming & Application, C Programming

## PROJECTS

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### YouTube Analytics Web application (Link: youtube-dz.herokuapp.com)

May 2020-Aug. 2020

- Developed YouTube Analytics to help YouTubers find hot topics, analyze videos & improve the SEO (Search Engine Optimization) of their channels
- Built the web application with **React** & the responsive UI with **React-Bootstrap**
- Used **Express framework (Node.js)** to handle client requests, communicate with **NoSQL database** on **MongoDB** & call **YouTube Data APIs** & **Google Trend APIs**
- Launched the web application on **Heroku**

### Image Management Tool

Oct. 2019-Jan. 2020

- Developed a feature-rich image management tool that supports adding filters to images, converting image formats & image properties detection
- Built GUIs to allow users to preview filter effect, upload images & change formats using **JavaFX**
- Created color filter **APIs** for photos to change the color style using **OpenCV**

### Online-Learning Web Application (Link: study-more.herokuapp.com)

Aug. 2019-Oct. 2019

- Built a full-fledged web application that supports course registration, video streaming, profile editing, messaging & commenting using **jQuery** & **Django frameworks**
- Designed a data schema to store user, course & university information with **MySQL**

## EXPERIENCE

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### Subaru of Japan

### Dispatch Employee from CBS Techno Corporation | Japan

Jan. 2015-July 2019

- Built a program using CAPL (C-based language) to simulate vehicle CAN Bus System, avoiding defects in the system
- Cooperated with suppliers to test functions of the telematics system, ensuring that more cars were launched to the European & American markets successfully
- Assessed GNSS, Wi-Fi, Bluetooth, GSM connection performance & improved GNSS signal-to-noise ratio more than 10dB by analyzing the noise source & redesigning the electrical system layout
- Secured car infotainment system by evaluating Bluetooth & Wi-Fi security

## SKILLS

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- **PROGRAMMING LANGUAGES:** Java, Python, JavaScript, SQL
- **TOOLS:** Git, MongoDB, Heroku, MySQL, TensorFlow
- **WEB TECHNOLOGIES:** HTML, CSS, jQuery, Django, React, Redux, Bootstrap, Express, Flutter
- **LANGUAGES:** English, Chinese, Japanese