

Dehui Yu

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EDUCATIONAL BACKGROUND

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|---|--------------------|-------------------------------|
| University of Ottawa, Canada | GPA: 4 | <i>Sept. 2021 – Dec. 2022</i> |
| <ul style="list-style-type: none">Master of Computer Science focus on Full stack web development | | |
| Henan Agricultural University, China | GPA: 3.88 (Top 5%) | <i>Sept. 2017– June. 2021</i> |
| <ul style="list-style-type: none">Bachelor of Engineering in Computer Science and Technology; | | |

SKILLS

Front End development | **JavaScript (ES5&ES6), TypeScript, React.JS**, HTML/CSS, **Bootstrap**, Sass, **EJS**

Back End development | **Express.js, MongoDB, MySQL**, RESTful API

Tools & Utilis & Knowledge | **Jira, Git, NPM, Docker, Kubernetes, Linux, Micro-service, CI/CD pipeline, Figma**

WORK EXPERIENCE

Teaching Assistance, University of Ottawa, Canada *Jan. 2022 –Aug. 2022*

SEG 3125: Analysis & Design User Interfaces on web development

- Design students' homework using UI/UX design tools - **Figma**;
- Help students build a Full stack web application using **MongoDB, Express, React, Node.js** in the lab.

ITI 1121: Introduction to Computing

- Automate grading with **JUnit** test

Data Engineering Intern, Lytica, Canada *Sept. 2021 – Jan. 2022*

- **Mitacs Accelerate Program, Website:** <https://www.mitacs.ca/en/programs/accelerate>
- By using **Compute Canada**, Train **convolutional neural networks (CNNs)** to improve the state-of-the-art precision and recall in tabular detection while maximizing the value of extracted information for industrial applications.

PROJECTS

Microservice App based on Event-driven architecture, [Project Link](#)

- Use **React, Axios.js** and **Express.js** to complete the main actors and communications in a microservice app: **Event Bus**, Event Creators, Subscribers, Event Store, Event Watcher
- Containerize each service in **Docker** and simplify the delivery and management of those microservices.
- Use **Load Balancer & Ingress Controller (Kubernetes)** to control the map incoming traffic from the internet to the services running in the cluster.

Best campgrounds for **Canada**, <https://best-camp-canada.herokuapp.com/>

- Front-end: Use **EJS** view engine to enable **HTML** markup with plain **JavaScript**, and **Bootstrap** is used for creating **responsible** UI elements and the **Joi validation** module is used to validate data at the request level.
- Back-end: **Express.js** is used for building **REST APIs** and handle **HTTP Requests** (GET, POST, DELETE, PUT) from client-side. **Mapbox** enable Geocoding and displaying Maps on Campground's page. **Passport.js** is used for user authentication. Finally, I deployed it on **Herokuapp**.

GitHub Finder, an app search GitHub user and display their info, <https://dwightu.github.io/Github-finder/>

- Use **React hooks**- **useContext**, **useState**, **useReducer** to manage the state change.
- Use **Fetch API** to send **GET** request get **JSON** data from GitHub. **React-icons** and **daisyui** are used for UI elements. The project is deployed on **GitHub pages**.

Please explore more projects at <https://github.com/Dwightu>