

# Frank

<http://frankdu.me>

 [github.com/duyihang0](https://github.com/duyihang0)

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## EDUCATION

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### • **Candidate of the Bachelor of Environmental Studies**

*2A Geomatics*

University of Waterloo

*Class of 2022*

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Javascript, SQL, Java, C#, HTML, Racket, LaTeX
- **Tools:** ArcGIS, Visual studio, Git/Github, Gitlab, SVN, Tomcat, JDBC, Wing, Eclipse, DrRacket, Unity, Webstorm, Editplus, Oracle VM, Excel, Photoshop,
- **Frameworks & Libraries:** JQuery, Bootstrap, Node.js, EasyUI, JSP, MVC

## PROJECTS

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### **Coffee Shop Map ([duyihang0.carto.com](http://duyihang0.carto.com))**

*HTML, JavaScript, CSS, GeoJSON, ArcGIS, SQL, Excel*

- Made a coffee shop map web application that allows the user to view a list of coffee shops with their respective price ranges on a map
- Implemented filtering feature that allows the user to selectively view coffee shops by price range
- Created functions that accurately displays coffee shops positions on the map based on their latitudes and longitudes stored in the database
- Used HTML to present the user information about price fluctuation of coffee and tea with varying circle sizes and shades
- Retrieved base map information from ArcGIS

### **Personal Website ([frankdu.me](http://frankdu.me))**

*HTML, CSS, JavaScript, Bootstrap, Git, LaTeX*

- Designed and implemented a personal website that contains my social media information, resume, a mini side project game, and a brief description of my major
- Utilized advanced JavaScript techniques to add animations and make the website more interactive
- Implemented a game that allows the user to use arrows to control the player and collect squares in random places for points

### **Customer Relationship Management(full stack)**

*JAVA, HTML, CSS, JavaScript, JQuery, SQL, JDBC, JSON, XML, Tomcat, MVC*

- Implemented login function that queries SQL database to check whether an account exists, and guides the use to the sign-up page if account is not found
- Used MD5 encryption to protect user account
- Created a system that allows the user to view customer information, including transaction and customer contract information.
- Developed functions that allows the user to find and make appropriate changes to customer information

### **Twin Goose (Unity 2D Game)**

*C#, Unity, Gitlab, Photoshop*

- Developed a complete game that involves player movement control, shooting, killing enemies, and weapon selection
- Allows the player to perform various game actions with keyboard input
- Implemented a level based system where player needs clear the previous level to proceed to the next level with increasing difficulty
- Collaborated with teammates on GitLab