

# ZHANG LIANG

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## EDUCATION

**Georgia Institute of Technology**

(expected) **August 2022**

**Master of Science in Computer Science**

**GPA:4.00/4.00**

**Relevant Course:** Graduate Algorithms, Software Development Process, Software Architecture & Design, Database System Concept & Design, Computer Network, Network Security

**University of Florida**

**May 2017**

**Master of Science in Mechanical Engineering**

**GPA:3.66/4.00**

## WORK EXPERIENCE

**Senior Process Engineer** | BYD Energy LLC, Lancaster, CA

**July 2017 - Present**

- Developed a full-stack data warehouse for the supply chain department and the production department in a 6-person team with **Flask** and **MySQL** in **Docker** and deployed in the company's intranet in **Nginx**
- Increased reporting speed for the production department by 66% by cooperating with other engineers to develop the report generating function. The function was achieved by writing **JavaScript** and **JQuery** commands to handle and process **JSON** data from the database
- Reduced the production status updating time of the production lead by 20 min/day and simplified the updating process by developing a separate status tracking **HTML** webpage with optimized **CSS** within **Bootstrap** Framework
- Decreased report generating time by 30% by optimizing the **SQL** query to reduce the repeated querying of the same data from the database

## SOFTWARE PROJECTS

**Build Web Apps with React & Firebase Bootcamp** | Udemy

**March 2022 - April 2022**

**Github link:** [https://github.com/johnliang0731/Cooking\\_Recipe\\_React](https://github.com/johnliang0731/Cooking_Recipe_React)

- Developed a card matching game with **React**. Users could click and flip 2 cards every time. The card will rotate to show the backside content. If these two cards' contents are matched, the cards will keep the backside up.
- Developed a food recipe directory page with **React**. Users could post new recipes, view all the receipts in the main page, change the theme color and switch dark/light mode. All the receipts are layout on the main page as cards with titles and a 100-characters preview of the content

**"Offer Compare" Android Mobile Application** | Georgia Institute of Technology

**January 2021 - May 2021**

**GitHub link:** [https://github.com/johnliang0731/AndoridApp\\_JobCompare](https://github.com/johnliang0731/AndoridApp_JobCompare)

An Android app that allows you to store job offers and compare any two job offers

- Cooperated in a 4-person team remotely to develop an android app in **Android Studio** with **Java**. All the code development was done in **GitHub** and communication was undertaken through video conference in Microsoft Team
- Designed the UI of the app, and developed buttons to trigger functions such as jumping to another menu and saving data.
- Solved the problem of illegal data input by adding constraints in checking input format and programming pop-up illegal-input alerts. Design test cases to confirm the function works as designed

**"Streaming Wars" Java Application** | Georgia Institute of Technology

**January 2021 - May 2021**

**GitHub link:** [https://github.com/johnliang0731/Streaming\\_Provider](https://github.com/johnliang0731/Streaming_Provider)

An application that allows you to track the cost and revenue of different streaming services providers

- Led a 3-person team in developing the **Java** application with **Swing GUI** through cooperating in **GitHub**.
- Solved the problem of securing credentials by applying Hashing to encrypt passwords and storing encrypted passwords in the database
- Applied **Unit testing** to cover as much user input behavior as possible, revealed and fixed 2 critical bugs to prevent infinity-loop-error
- Learned the principle of **Agile** software development practices, the Software Development Life Cycle(**SDLC**)

**Python and Django Full Stack Web Developer Bootcamp** | Udemy

**February 2020 - May 2020**

- Built entire frontend and backend modules using **Python** on **Django** Web Framework based on **MVC** architecture for **CURD** operations, user could register and login to the webpage, post blog, and comment on each blog
- Designed and developed UI using **JavaScript**, **HTML**, and **CSS**; worked on **Bootstrap** front-end framework.; Designed and tested **REST APIs**
- Deployed project in **Apache** in Windows system
- Applied **Celery** and **rabbitMQ** to develop a task queue for email notification through Django

## SKILLS

**Language:** Python, Java, JavaScript, HTML, CSS, SQL

**Frameworks:** Django, Flask, Bootstrap, jQuery, React

**Tools:** Git, GitHub, Docker, MySQL, Apache, Nginx, uWSGI, Wireshark, Postman, Celery, rabbitMQ, Spark, Visual Studio Code, IntelliJ, Android Studio

## CERTIFICATION

**Programming Foundations: Data Structures** | LinkedIn Learning

Credential ID: AdRTxtFR0e0VjMnWlgcIg\_tyNBxf

**Java 8 Essential Training** | LinkedIn Learning

Credential ID: AZhYBB0sHocAjUMCWwBYBLtGOC7d

**Python and Django Full Stack Web Developer Bootcamp** | Udemy

Credential ID: UC-e557b3e0-fb5c-43f3-b2f0-3565975a3975