

# GEORGE LU

## Software Engineer

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**Professional Summary** – Software Engineer with experience building full stack applications and languages such as Java, C++, C#. Also well versed in technologies such as SQL, HTML5, CSS, JavaScript, REST, and AWS.

### EDUCATION

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#### University of Central Florida

*Master of Science in Computer Science*

**Orlando, FL**

August 2021 - December 2022

#### University of Central Florida

*Bachelor of Science in Computer Science*

**Orlando, FL**

August 2018 - August 2021

Cumulative GPA: 3.79 | Major GPA: 4.0 | Dean's List | Cum Laude

### TECHNICAL SKILLS

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**Programming Languages** – C, C#, C++, Java, Python

**Artificial Intelligence / Machine Learning** – TensorFlow/Keras, PyTorch, Scikit-learn, SpaCy, Pandas, Matplotlib, NumPy

**Version Control** – Github, Docker, Kubernetes, Jenkins, Terraform

**Methodologies** – Object Oriented Programming, Scrum, Agile Software Development, Unit Testing

**Front End** – HTML, CSS, JavaScript, React, Bootstrap, jQuery

**API/Backend** – PHP, NodeJS, Express, Flask, Django

**Database Management** – MySQL, PostgreSQL, MongoDB, Firebase

**Web Server** – Apache, Nginx

**Cloud-Based Technologies** – Amazon Web Service

### RELEVANT PROJECTS

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#### Definitely not Trello (Trello Clone)

- Lead a team in developing a Trello Clone
- Designed a user friendly UI for the customer using React
- Developed the API using Nodejs for communication between website and database
- Created and Maintained the database using MongoDB
- Deployed on Amazon Web Service using Nginx

#### Dexter Intelligent Desktop Application

- Lead a team in developing a desktop application using artificial intelligence to control the desktop
- Implemented a gesture recognition system using Pytorch
- Implemented a voice assistant system using Pytorch

#### Data Analyzes on Fraudulent Card Transaction

- Preprocessed and created visuals to help analyze a dataset using NumPy, Pandas, and Matplotlib.
- Created machine learning models to train and predict fraudulent card transactions on an unbalanced dataset using Scikit-learn

#### Contactager (Contact Manager)

- Lead a team in developing a Contact Manager
- Designed a friendly UI using HTML, CSS, JavaScript
- Developed the API using PHP for communication between website and database
- Created and Maintained the database using MySQL
- Deployed on Amazon Web Services using Apache 2.0

#### Breast Cancer Detection

- Preprocessed and created visuals to help analyze the dataset using Numpy, Pandas, and Matplotlib.
- Used Machine Learning Algorithms to achieve an F1 Score of 80%

#### Twitter HR Reply Bot / Text Generation

- Developed software to use twitter API to collect data on tweets/ replies
- Preprocessed and cleaned data for model
- Built a model using TensorFlow based on RNN
- Generate replies for customers based on Tweet

### ORGANIZATIONS

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#### AI@UCF (Member)

- Learned about artificial intelligence and its applications within the different fields of AI.

**Orlando, FL**

August 2018 – Present