

# Mengdi Yan

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## EDUCATION

<b>University of Southern California (USC), CA, US</b> <i>Master of Science in Computer Science</i>	<b>May 2023</b> GPA:3.4
<b>New York Institute of Technology (NYIT), NY, US</b> <i>Bachelor of Science in Computer Science</i>	<b>May 2020</b> GPA:3.7
<b>Nanjing University of Posts and Telecommunications (NJUPT), NJ, CN</b> <i>Bachelor of Engineering in Computer Science and Technology</i>	<b>May 2020</b> GPA:3.7

## SKILLS

- **Programming Language:** Python, Java, SQL, JavaScript/TypeScript, HTML, CSS, Kotlin, C#, C, C++, Swift
- **Frameworks & Platforms:** Node.js, Angular, Flask, Git, Android Development, WordPress, Google Cloud Platform, Amazon Web Service, AJAX, MySQL, SQLite, React, Hadoop, RESTful API, Machine Learning

## PROFESSIONAL EXPERIENCE

<b>Software Engineer</b> NeuroLeap Crop <a href="https://neuroleap.com/">https://neuroleap.com/</a>	<b>May 2023–Present</b> California, United States
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- Deployed a website using **Docker**, implemented containerization techniques to ensure consistent deployment across multiple environments
- Configured and managed a **Content Delivery Network (CDN)**, optimized website performance and improved delivery efficiency to end-users

<b>Website Developer (Part-Time)</b> Yadestiny Treasure Chest <a href="https://yadestinytreasurechest.org/">https://yadestinytreasurechest.org/</a>	<b>Feb 2023–Present</b> New York, United States
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- Work with UI/UX team to code and deploy web pages using **HTML, CSS, JavaScript, WordPress, Figma**

<b>Natural Language Processing Engineer Intern</b> Yun Wen Technology Co., Ltd <a href="https://www.iyunwen.com/">https://www.iyunwen.com/</a>	<b>Jun 2020-Aug 2020</b> Nanjing, China
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- Validated and filtered false positives and irrelevant QA pairs by reviewing and identifying patterns with regular expressions and applied a set of rules including keyword, format, relevance to classify QA pairs into different categories
- Trained a **Bi-LSTM** model for **text labeling prediction**, implemented with **TensorFlow**, fed output into **CRF** layer for performance improvement by fine-tuning model architecture and weights of transitions between labels
- Improved accuracy to 90% and reduced human labor by 70%, provided information & services with a QA bot for targeted event

<b>Software Engineer Intern</b> Swapinfo Technology Co., Ltd	<b>Mar 2019-Jul 2019</b> Nanjing, China
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- Developed a prototype of an **Android** application for vocabulary memorization using **Kotlin**, having data manipulation with **MySQL**
- Consolidated requirements with product manager by meeting with them regularly to discuss project goals, conducting user research to gather feedback, and creating a detailed design document that outlined the proposed solution
- Tested individual units of code for different scenarios with **JUnit**, debugged failing tests to ensure free of regressions

## ACADEMIC PROJECTS

<b>Quant Shark Data Science Online Tool</b>	<b>May 2022-Oct 2022</b>
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- Co-led team to architect and implement a **cloud-native** and **scalable pipeline** using **Python & Colab** for data exploration
- Updated code iteratively according to changes of user requirement and used **scikit-learn, MICE & KNN imputation** model
- Reduced 80% of human labor hours, provided data preprocessing atomization to report generation services

<b>Responsive Weather Information Website</b>	<b>Oct 2021-Dec 2021</b>
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- Created a responsive weather information website having a frontend built using **Angular** with **TypeScript**
- Completed look of webpage using **HTML** and **CSS**, together with **Bootstrap**
- Implemented backend using **TypeScript**, transferred API calls through **Node.js**, and deployed on **Google Cloud Platform**

<b>IoT Smart Management Cloud Platform</b>	<b>Mar 2019-Jun 2019</b>
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- Lead team in implementing functions on web applications with **React**
- Modeled user database in **MySQL** together with **Java** using **JDBC** and completed data entry
- Designed structure of database and implemented with entity relationship model

## RELEVANT COURSEWORK

Database Systems, Web Technologies, Computer Networks, Web Search Engine, Operating System, Computer Organization and Architecture, Foundations of Artificial Intelligence, Security Systems

## PUBLICATIONS

"Threat Intelligence Sharing Community: A Countermeasure Against Advanced Persistent Threat," 2019 IEEE Conference on Multimedia Information Processing and Retrieval (MIPR), San Jose, CA, USA, 2019, pp. 353-359. (Co-first Author)

## HONORS & AWARDS

- **Second prize in National Undergraduate IoT Design Contest, Huawei Cup** Jun 2019
- **First prize of NJUPT Internet Plus Entrepreneurship Competition** Mar 2019
- **2019 Spring NYIT Edward Guiliano Global Fellowships** Feb 2019