work@zemingzhang.com, zemingzhang1@gmail.com
linkedin.com/in/zz-zay, github.com/zemingzhang1
347-322-5173
me.zemingzhang.com

ZeMing Zhang

37^{th} *Avenue*, *Flushing*, *New York* 11354

Education

University at Buffalo **August 2022 – June 2024**
Masters of Science ES, Data Science *Buffalo, New York*

University at Buffalo **August 2018 – June 2022**
Bachelor of Science in Computer Science 3.24, Cum Laude *Buffalo, New York*
Minor in Cybersecurity 3.79 *Buffalo, New York*

CodePath **August 2021 – December 2021**
Certificate of IOS Development *Buffalo, New York*

Experience

University at Buffalo Nanosatellite Laboratory **Dec 2021 - Present (5 months +)**
Independent Study (Glados mission: camera app sub-team programmer) *Buffalo, New York*

- Designed NASA flight software camera app that met basic performance expectations, sending image buffer to and back from the ground ops, with physical ans hardware limits .
- In Glados Mission as a student programmer, and the short cycle/ground station lab as a member.
- Worked with soldering and embedded systems, such as Arduino and Raspberry Pi.
- Also working on configuring Egrabber API, writing wrapper functions from C++ to C and programming camera application photo data buffer and packet storage.

Amazon.com **Jun 2021 - Aug 2021 (3 months)**
L4 Manager I Intern *Edison, New Jersey*

- Coach, manage, and developed Amazon Fulfillment Engine team of 50 to 200 Amazon associates.
- Auditing Amazon SLAM lines for proper maintenance and adjustments.
- learnt to work with central management system consoles such as Apollo, rainbow charts and Amazon FC databases, as well as how to repair networked devices on the AWS physical Ethernet layer.
- Conducted process improvement project and proposal that helped LGA9 to decrease kick out cost by approximately 25 percent (205,041 dollars).

Extracurricular

Microsoft Tech Resilience Program **Feb 2022 - Apr 2022 (3 months)**
Mentee *Microsoft*

- Experienced and practiced public and professional communication, instilling confidence and resilience through group meetings.
- Partnered with Microsoft employees as mentors which provide a lot of guidance on career approaches in the near future.

STEM Youth Mentor **Sep 2019 - Dec 2019 (4 months)**
STEM Student Mentor *National Grid*

- Supervised children's progress of learning, to verify completion of assignment and if student received the correct understanding of a topic.
- Lead a group of 10 Fifth Graders, assist Graduate leader with children's behavior align with appropriate classroom discipline.

University At Buffalo Robotics Club **Sep 2019 - Aug 2020 (1 year)**
Software Programmer *University At Buffalo*

- Collaborated with code developers and performance engineers to complete the embedded systems control of the robot.
- Tested features/models, developed robot movement algorithms using APIs, and participated in Club meetings and blueprinting.

Projects

Text to Latex Web app | *Python, pywebio - Python, HTML-less framework, Latex, Google domain* **Mar 2022 - Apr 2022**

- This is a Latex converter, the input is plain text formatted by indicated parsing rules; the final result is a formatted instructional guidance report.
- The web app will produce a Latex file with the supplementary images if added, with overleaf compile the latex file, the output is a standard MLA instructional guidance report.
- Originally for a class but soon was useful for other reports.

Android ToDo App | *Java, kotlin, Android Studio* **Jan 2022 - Jan 2022**

- ToDo is an android app that allows building a todo list and basic todo items management functionality including adding new items, editing and deleting an existing item.
- Uses different classes, interface functions, and inheritance.

Parsegram/Instagram | *Instagram API, Postgres, Xcode, parse-API* **Oct 2021 - Oct 2021**

- This is an Instagram clone with a custom Parse back-end that allows a user to post photos and view a global photos feed.
- Uses swift query and types parsing, rest API, used Ammo-fire to send and display images, and etc...

Gentrification Model | *Python, Pandas, scikit-learn, matplotlib, headless chrome, pyautogui, beautiful soup* **Mar 2021 - Apr 2021**

- This project uses a data base composed of web scraped zillion property value and US census API to build a gentrification model of New York City by zips and pumas.
- As the data is inputted, the data will be cleaned and verified. Then the application uses various models and methods such as linear regression, Gaussian distribution, k nearest neighbors, and etc to find relevancy of facts that cause a change in pretty values.

Technical Skills

Languages: C, Python2-3, Swift, HTML/CSS, JavaScript(node, 3, sketch), Scala, Java/kotlin, C++, SQL, etc...
Library Tools: Pandas, Pywebio, Django, Flask, Bottle, Pyautogui, Tensorflow, Opencv, OpenMP, etc...