

# YONGTAI CHEN

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## EDUCATION

### New York University

Master of Science, Computer Science, GPA: 3.6

New York, NY  
September 2021 – May 2023

- NYU scholarship (2021 - 2023)

### Northeastern University (China)

Bachelor of Engineering, Computer Science, GPA: 3.7

Shenyang, China  
September 2015 – June 2019

- NEU scholarship (2015 - 2018), NEU Excellent Graduation Thesis (2019)

## EXPERIENCE

### China Architecture Design & Research Group

Software Engineer Intern

Beijing, China  
October 2020 – March 2021

- Created an automated building management system by integrating various APIs using Python and Java.
- Implemented high-performance asynchronous event handler using Python's asyncio module
- Standardized access for various manufacturer's home appliances through programming interfaces
- Managed and stored diverse data utilizing PostgreSQL and MongoDB databases
- Decreased energy consumption by 30% through conducting user behavior analysis and optimizing lighting and acoustic settings

### Baidu, Inc.

Software Engineer Intern

Shenyang, China  
June 2018 – August 2018

- Developed a neural network for detecting storefront billboards using Python and Baidu PaddlePaddle framework, resulting in 2<sup>nd</sup> highest precision among 21 contestants
- Implemented the Single Shot MultiBox Detector (SSD) neural network, improving upon traditional Convolutional Neural Networks (CNN) with reduced computational requirements
- Deployed the model on Baidu AI Studio, tuning and testing the SSD to optimize performance
- Enhanced speed and accuracy of information storage for Baidu Map, serving 20 million+ daily active users in China

## PROJECTS

### Covid-19 Fake News Detector

October 2022 – December 2022

- Conducted research on identifying misinformation about Covid-19 using Python and Spark
- Utilized PySpark.ml to pre-process tweet data and employed GloVe 100D and Universal Sentence Encoder to map cleaned tweets to vector space
- Trained the model using DNN from Spark NLP, resulting in a 91.89% F1-score
- Implemented Spark-Streaming to detect fake news in real-time

### Smart Calendar - Android App Development

March 2018 – May 2018

- Led a team of four to design and develop a Smart Calendar system using Java, facilitating efficient communication between faculty members and students real-time notifications
- Applied Agile development methodologies to ensure efficient and top-notch project delivery
- Implemented cross-domain cookie persistence for seamless user synchronization with the school's message board
- Reduced bandwidth usage and enabled server-initiated data transmission by WebSocket connections built with OkHttp

## SKILLS

Programming: C/C++, Python, Java, Kotlin, Go, Bash, JavaScript, PHP, HTML/CSS, SQL, MATLAB, XML, JSON  
Tools: Linux, Git, L<sup>A</sup>T<sub>E</sub>X, Tensorflow, PyTorch, PaddlePaddle, Pandas, CMake, Nginx, Caddy, Flask, React, Qt, PostgreSQL, MySQL, MariaDB, NoSQL, OpenCV, Hadoop, Spark, Android Studio, AWS, GCP, Docker