

# Yifan(Eden) Wu



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## Skills

- Programming language: **Python**, **C**, **Golang**, **Linux**, Java, Javascript, C++, HTML5, css, SQL
- Web Development: **React**, React Native, Swift
- Backend Development: **Django**, NodeJS, PHP
- Databases: **PostgreSQL**, MySQL
- Service Cluster: Docker, **Kubernetes**
- CI/CD and Agile: **Git**, **GitHub Actions**, Gitlab, Jenkins, JIRA, Zenhub, TravisCI, Coveralls
- Language: **English (GRE-325)**, **Mandarin Chinese**, Japanese



## Work History

2023-04 - Present

### Research Assistant

*New York University, New York*

- Served as a Research Assistant at NYU Visualization Imaging and Data Analysis Center (VIDA) for the AlphaD3M project.
- Managed the Git repository for Alpha-AutoML, ensuring ongoing development and maintenance. Led the creation of diverse projects involving machine learning, dataset profiling, and data visualization.

2021-07 - 2023-01

### ICT Software Developer

*Huawei, Shanghai, China*

- Developed Packet Core Service Functionalities of Huawei 5G Network Engine Router. Wrote 20,000+ lines of code in **Golang** and **C**, with a test coverage of over 80%, and discovered less than 1 critical bug per 1,000 lines during Agile Test Cycles.
- Engineered Disaster Tolerance functionalities for **Kubernetes** (k8s) and **Docker** Container as a Service (CaaS) clusters.
- Developed and maintained IP Stack module, IPSec VPN module, and Hot Backup Finite-state machine module. Received the prestigious Huawei Future Star Award in recognition of outstanding contributions and achievements.

2021-02 - 2021-05

### Algorithm Designer Intern

*Tsinghua University Laboratory, Shanghai, China*

- Project experience in building and training **UNet** satellite remote imagery building segmentation model for Tsinghua Environmental Institute. Personal responsibility is to develop 3D city database of China for academic use.

2020-06 - 2020-09

## Heterogenous Computation Intern

*Kuaishou, Beijing, China*

- Worked together with Intel, Cambricon, and Xilinx field engineers, build cloud testing environments for their new generation of hardware.
- Evaluated various GPU and FPGA chips. Achieved 50% performance boost with the CPU + FPGA config in comparison with pure CPU config.
- Developed Kuaishou's own optimized inference engine using Intel **OpenVINO** API + **OpenCL**, implemented Super Resolution and Bert models on different AI chips and test machines.

2018-12 - 2019-06

## Quality Assurance Intern

*HYD Software Inc., Beijing, China*

- Performed functional testing and test automation for an online marketing solution for Internet Brands as agile tester and programmer.
- Proficient in using Java-based automation test IDEs such as **Robot Framework** and **Angular JS**. Created 100+ automation scripts for functional test, performance test, and stress test. Launched over 1,000 black-box test cases.



## Project Experience

2023-04 - Present

### Alpha-AutoML

- Engineered the robust Alpha-AutoML tool for VIDA Lab, incorporating Monte Carlo Tree Search to autonomously generate and optimize pipeline combinations for **Scikit-Learn**.
- Spearheaded the management of the Git repository, and executed the implementation of image classification pipelines leveraging CLIP and ViT models. Formulated Time Series Forecasting pipelines using DeepAR and ARIMA models, while also designing and implementing semisupervised pipelines. Additionally, create a **Kubernetes** cluster and **Docker** images for the tool.

2023-07 - Present

### ARTITONE

- Co-founded and contributed to the development of Artitone, an online marketplace dedicated to supporting the artist community in industrial artworks.
- Designed and implemented the backend infrastructure using **Django** on **AWS** Elastic Beanstalk. Established the complete **CI/CD** pipeline. Developed and maintained the database architecture using PostgreSQL. Implemented image recognition techniques, including CLIP algorithms, enable the platform to categorize artworks by their texture and color palettes. Additionally, developed the native implementations using **React Native**.



## Education

2021-09 - Current

### Master: Computer Science

*New York University Tandon School of Engineering*

New York, NY  
GPA: 3.9

2017-09 - 2021-07

### Bachelor: Computer Science

*New York University Shanghai*

Shanghai, China  
GPA: 3.6

2019-09 - 2020-06

### Bachelor: Computer Science

*New York University*

New York, NY  
GPA: 3.8