

# Peixian Wang

## Curriculum Vitae

+1-323-942-9374  
✉ peixian [at] malloc.dog  
📄 malloc.dog  
🌐 peixian

### Educational Background

2020	<b>MA Candidate in Near Eastern Studies</b> , <i>Hagop Kevorkian Center for Near Eastern Studies</i> , NYU, New York, NY. Anticipated May 2023
2020	<b>Non-degree Student</b> , CUNY Graduate Center, New York, NY.
2019	<b>Arabic Summer Intensive</b> , Qasid Institute, Amman, Jordan.
2018	<b>Non-degree Student</b> , Hunter College, New York, NY.
2012	<b>BSc Astronomy</b> , <i>College of Liberal Arts and Sciences</i> , University of Illinois, Urbana-Champaign, Illinois.

### Research Interests

- MIDDLE EAST**
  - Religious rituals of Shia in Iraq
  - Politics and authority within religious ceremonies
- LINGUISTICS**
  - Automated speech processing for religious rituals
  - Language transfer between Arabic, Mandarin, and English

### Professional Experience

2022	<b>Senior Software Engineer</b> , <i>Sleeper</i> , Remote, sleeper.com/company. Working on building sports betting and backend applications.
2018	<b>Senior Software Engineer</b> , <i>Bloomberg LP</i> , NYC, bloomberg.com/company. Working on intent classification on the NLP team within the AI group. Previously worked on petroleum markets and multi-asset risk.
2018	<b>Golang Developer</b> , <i>Datadog</i> , NYC, datadoghq.com/about. Built data ingestion services for Amazon Web Services, Google Cloud Platform, and Microsoft Azure.
2016	<b>Backend Engineer</b> , <i>Vimeo</i> , NYC, vimeo.com/about. Wrote and maintained Python video delivery pipeline.

### Consulting Experience

2018	<b>Consultant</b> , <i>Tokamak Software LLC</i> , Remote, tokamak.io. Running a software consultancy for distributed systems and natural language processing.
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2018

**Expert Interviewer**, *Karat*, Remote, karat.io.  
Providing technical interviewing services.

2021  
2022

**Consultant**, *United Nations, Department of Peacekeeping and Political Affairs*, Remote, dppa.un.org/en.

Served as a technical consultant on a Natural Language Processing project related to gender sensitive language within DPPA.

2018  
2018

**Contract Developer**, *IPInfo*, Remote, ipinfo.io.  
Built out Airflow backend for distributed processing.

## Projects

### Published Work

2022

**Annual Civilian Harm Report, 2021.**

Contributed to assessments for civilian casualties for 2021: (airwars.org/report/annual-report-for-2021)

2021

**Libya Civilian Casualty Assessment.**

Contributed to assessments on civilian casualties in Libya: (airwars.org/news-and-investigations/ten-years-after-libyan-revolution-vict

### Undergraduate Projects

2016

**Stellar Stream Modeling.**

Measurement of stellar stream formation through N-body simulation (github.com/peixian/Stellar-Stream-Modeling)

2016

**Z3 Petya Solver.**

Usage of the Z3 theorem prover to solve Petya encryption (github.com/peixian/Infestor)

2016

**Starcraft AI.**

Construction of a game AI through a multi-layer perceptron (github.com/peixian/Ultralisk)

## Languages

Mandarin	Native
English	Native
Modern Standard Arabic	Intermediate
Iraqi Arabic	Advanced

## Skills

Programming Languages	Elixir, Erlang, C++, Python, R, Julia, C, Go
Software	Distributed systems, software reliability, formal methods
Statistics	Monte Carlo simulation, historical simulation, etc
Natural Language Processing	Deep learning, intent classification

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## Volunteering

2021

**Assessor**, *Airwars*, Remote, [airwars.org](http://airwars.org).

Verifying and assessing civilian casualty counts from airstrikes.

2020

**Volunteer**, *ITDRC*, NYC, [itdrc.org](http://itdrc.org).

Volunteering with setting up network and internet connections for communities during disasters.

2022

2018

**Tutor**, *New York Cares*, NYC, [newyorkcares.org](http://newyorkcares.org).

Tutored students in the PSAT and tutored adults in English for citizenship applications.

2019

2014

**Organizer**, *HackIllinois*, University of Illinois, [hackillinois.org](http://hackillinois.org).

Helped to organize first hackathon with the Computer Science Department.

2015

2013

**Organizer**, *Reflections/Projections Conference*, University of Illinois, [reflectionsprojections.org](http://reflectionsprojections.org).

Helped to find speakers, organize travel, and general staffing of the largest student-run technology conference in the Midwest.

2014

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## Affiliations

### Professional

Association for Computational Linguistics ([aclweb.org/portal/](http://aclweb.org/portal/))

Apache Software Foundation ([apache.org/foundation](http://apache.org/foundation))

Wilderness First Responder, NOLS ([nols.edu/en](http://nols.edu/en))

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## References

Available on request.