

# Jiechen Li

Tel: 984-317-4123 | [jl1254@duke.edu](mailto:jl1254@duke.edu) | [LinkedIn](#) | [GitHub](#)

Experienced product analyst with 6+ years in EdTech, now transitioning to a **Data Science / Engineering / Research Intern** while pursuing a second master's in data science.

## EDUCATION

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### Duke University

Durham, NC

MS in Interdisciplinary Data Science; GPA: 3.9/4.0

Expected May 2025

- Relevant Courses: Natural Language Processing (NLP), Statistical Modeling, Data Engineering, Python Data Science, Principles Machine Learning (in progress)
- Honors & Awards: MIDS Scholarship of 20% Tuition Discount

### University of Rochester

Rochester, NY

MS in Teaching English to Speakers of Other Languages; GPA: 3.9/4.0

Graduation Date: July 2016

- Relevant Courses: Master's Research Methods (Quantitative & Qualitative)

### Inner Mongolia Agricultural University

Hohhot, China

BA in English; GPA: 3.1/4.0

Graduation Date: July 2013

- Relevant Courses: Advanced Mathematics, Linear Algebra, Basics of Computer Engineering, Visual Basic Programming, The C Programming Language

## TECHNICAL SKILLS

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- **Professional Certificate**: Project Management Professional (PMP), AWS Cloud Practitioner (in progress)
- **Languages**: Python, R, SQL
- **Database & Visualization**: Pandas, Numpy, Seaborn, Matplotlib, ggplot2, Scikit-learn, MySQL
- **Machine Learning & Cloud**: Azure, AWS

## PROJECTS & RESEARCH

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### [Global Semi-finalist of Microsoft's Imagine Cup 2024 \(in progress\)](#)

December 2023

AI Companion Robot BunnyBot

- Joined to an award-winning [healthcare companion robot](#) using Raspberry Pi, enhanced with Azure and OpenAI API for interactive communication. This prototype secured a semi-finalist position and victory at the Duke Generative AI Hackathon.
- Leading product management data pipeline and API software development, while collaborating with cross-functional teams to ensure successful project implementation, and timely delivery.

### Data Engineering Project, Duke University

December 2023

Deploying Flask Apps to Azure Web App via Docker Hub

- Developed a Python-based Flask book recommended system to Azure and load the test with Locust.
- Managed Docker Hub and Azure deployment, co-authored [GitHub repositories](#), contributed to [Microsoft blog](#) publications, and received [recognition from Microsoft's Principal Cloud Advocate team](#).

### Python Data Analysis Project, Duke University

December 2023

Assessing the Impact of Opioid Prescription Drug Policies on Mortality Trends

- Conducted an in-depth opioid impact analysis, encompassing data preprocessing and exploration, revealing the opioid-mortality relationship, and informing policymaking.
- Co-authored the [research report](#), responsible for data cleaning and visualization, and contributed significantly to half of the report's findings and content.

### Beginner Award of Generative AI Hackathon, Duke University

November 2023

AI Language Learning Product "TalkwithMe"

- Developed a customized [AI-powered English learning tool](#) using Azure's Text-to-Speech and Pronunciation Assessment APIs.
- Invited to author a [Microsoft blog](#) post with my account, showcasing the innovation behind my product.

### NLP Algorithm in Python, Duke University

November 2023

Spam Email Classification Using Naïve Bayes and RNN Model

- Applied for Naïve Bayes and RNN Model for highly accurate spam email classification.
- Co-authored the [research report](#), responsible for Naïve Bayes model and the half of the report's findings and content.

## WORK EXPERIENCE

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### **Yongxiang Renewable Energy Technology Co., Ltd.**

**Hohhot, China**

*Analyst*

*September 2021 – May 2023*

- Leveraged **Python** to create and manage sales ROI dashboards, incorporating key statistics and trending analysis, which led to a 3.3% reduction in customer issues and a 2.8% increase in GMV growth.
- Coordinated and collaborated with other departments, such as engineering and marketing, to lead product training for the sales team.

### **Happy Seed Education Technology Co., Ltd.**

**Shanghai, China**

*Product Analyst*

*April 2021– August 2021*

- Successfully implemented the new Shared Services Platform (0-1-N), resulting in a 60% increase in collaboration efficiency.
- Identified product problems using data analyzing and collaborated with the Scrum product manager and engineers to complete the iteration while supporting backend engineers in creating and managing the API interface document description.

### **Haosue Education Technology Co., Ltd.**

**Hangzhou, China**

*Product Analyst*

*July 2020– March 2021*

- Successfully lead a new WeChat Mini Program learning product (0-1-N), resulting in a 100% increase in profitability, and monitored the acquisition, retention rate, and conversion rate which grew 26% month-on-month.
- Completed in-depth analyses for all Chinese online education brands and participated in a **SEO**-specialized market promotion strategy which resulted in an over 85% repurchase rate for the sales team.

### **Nanjing Unilingo Language Consultation LLC**

**Nanjing, China**

*Startup Founder*

*July 2019 – June 2020*

- Spearheaded new customer channel developments and negotiations and had exclusive translation collaboration with the Jiangsu Grand Theatre.
- Established and managed a 4-person team to cover product frontend, backend, and testing activities to meet the estimated goal, and broke even for 6 months prior to the pandemic.

### **Shanbay Education Technology Co., Ltd.**

**Nanjing, China**

*Education Business Analyst*

*June 2017 – June 2019*

- Successfully collaborated with a 7-person team to release the product with 50,000+ registered users.
- Collected, compiled, and translated product data into easily digestible reports, and coordinated with the team manager to wrangle and analyze the data through **SQL** and **Python**.
- Assisted in developing product metrics to help increase user satisfaction and productivity metrics over target.

### **Frontiers Academy**

**Costa Mesa, CA**

*Chinese Instructor*

*October 2016– January 2017*

- Supervised the progress of 2–6-year-old students with their spoken Chinese.

### **Tonsheen Fly Academy**

**Irvine, CA**

*ESL Instructor*

*August 2016– October 2016*

- Designed and implemented the Adult Survival English program, combining various English teaching methods and techniques, to assist new ESL students, resulting in a 100% retention rate and a 20% increase in test scores.