# PEIHAO(JADEN) ZHU

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## EDUCATION

**Northeastern University** — 09/2021 - 2023
*Master of Science in Computer Science (**GPA 4.0**)* — *Seattle, USA*

- **Teaching Assistant**: CS6650 (Scalable Distributed Systems)

**Ningbo University** — 09/2016 - 06/2020
*Bachelor of Science in Computer Science (**GPA 3.6**)* — *Ningbo, China*

## WORK EXPERIENCE

**Snowflake Inc.** — 05/2023 - 08/2023
*Incoming Software Engineer Intern* — *Bellevue, USA*

**Amazon Inc.** — 05/2022 - 08/2022
*Software Engineer Intern* — *Bellevue, USA*

- Designed and implemented **Spark-shell script** on **AWS EMR** to fetch forecast datasets from **S3** or **AWS Glue**.
- Implemented **Spark** applications for converting forecast and demand datasets as part of **ETL** process and developed **Scala** application to invoke third-party APIs to compare ML models.
- Developed **Airflow data pipeline** by **Python** in **AWS MWAA** to orchestrate all tasks, saving developers 20 mins configs time to run forecast backtest for Amazon Go, Amazon Fresh Businesses.

**Kuaishou Technology** — 11/2020 - 06/2021
*Software Engineer Intern* — *Beijing, China*

- Implemented EE-Case System based on (**Java, Kafka, Redis, MyBatis, Spring Security Filter**) to make Black box testing easier for testers.
- Developed a Personal Center to display user's to-do tasks, calendar information by defining **Protocol buffers** and using **gRPC**.
- Developed an in-app notification center, allowing user and admin to publish, read and update based on (**Java, MySQL, Spring Boot, Spring Events**).

**Hikvision** — 08/2020 - 11/2020
*Software Engineer Intern* — *Hangzhou, China*

- Developed the AP system by using (**Python, Django, MySQL, Redis**).
- Refactored the API to **RESTful** style and configured **Swagger** to communicate more efficiently with front-end colleagues.

## PROJECTS

**Truth Twitter** — March 2023

- Designed and developed a Twitter-like website using **MERN stack(MongoDB, Express, React and Node)**
- Users can view all tweets and other users' profiles, as well as post, delete and edit their own tweet after logining in or registering the account.(**React Hook, Redux-persist and Axios etc**)
- Hosted the React.js app with **Firebase hosting** and Node.js app with **Firebase Cloud Functions.**

**Mini-Racket** — December 2022

- Built a **mini-racket REPL** program by using **Golang** to support syntax including arithmetic & boolean expressions, conditionals(if-then-else) and variable & function definitions.

## TECHNICAL SKILLS

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|---|---|
| **Languages** | Java, Python, Scala, Shell, C++, Go, SQL, JavaScript |
| **Tools** | MongoDB, MySQL, Git, Tomcat, RabbitMQ, Kafka, Elastic Search, Redis, Jenkins, Spark |
| **Web skills** | Spring Boot, Django, React, Node, Express, HTML5, CSS |
| **AWS** | RDS, EMR, S3, Glue, MWAA, Athena, API Gateway, DynamoDB, Step Functions |