

PENGRUI MA

pengruima.com | [github/pengrui](https://github.com/pengrui)

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EDUCATION

New York University–M.S. in Computer Engineering(GPA: 3.77/4)	Sep. 2021 - May. 2023
University of Science and Technology of China–B.S. in Computer Science	Sep. 2017 - July. 2021

TECHNICAL SKILLS

Programming Language: Java, Python, JavaScript, PHP, Bash/Shell Scripting
OS & Frameworks &: Linux, React, Django, Spring Boot, Node.js, Next.js, Angular, Bootstrap
Database: MongoDB, MySQL, PostgreSQL
CI/CD & Cloud Service: AWS, Git, Docker, Kubernetes, Travis-CI
Architecture & Methodology: Microservices, Object-Oriented Programming, MVC

WORK EXPERIENCE

Software Engineer Intern <i>Meta Platforms, Inc</i>	May. 2022 - Aug. 2022 <i>Seattle - United States</i>
<ul style="list-style-type: none">• Worked on improving fundamental aspects of the real-time business impersonation detection flow for high-value brands with Machine Learning technologies in Ads problem team.• Set up multiple data pipeline with Python to expand image detection recall and implemented new trigger in back-end enforcement infra with PHP for similarity detection.• Manipulated data with SQL. Retrieved feature and retrain entity-agnostic classifier.• Achieved 94% detection rate and improved 21% daily match volume of imposters on extended coverage of photos.	
Data Scientist <i>Upgrade, Inc</i>	Sep. 2023 - current <i>San Francisco - United States</i>
<ul style="list-style-type: none">• Implemented production code for XGBoost classification models with FastAPI and deployed to Sagemaker.	
Data Scientist Intern <i>Upgrade, Inc</i>	July. 2023 - Sep. 2023 <i>San Francisco - United States</i>
<ul style="list-style-type: none">• Implemented models validation to loan whitelisting system in Data Science team. Continuously deploy microservice using Kubernetes. Refactored legacy code and achieve an 80% run time improvement.• Employed graph algorithms for feature engineering and utilized XGBoost along with Pandas to build a predictive classification model for assessing the behavior of loan applicants.	

PERSONAL PROJECT

Highly Scalable MERN-Stack Application – [Hacker.io](#)

- A real world app listing of useful online courses and tutorials with high scalability. Low cost of operation and implement some functionalities to make much easier, fun and engaging for users to post/view.
- Developed with **React** and **Next.js** for client-side and **Node.js**, **Express**, **MongoDB** for server-side.
- Set up **AWS S3** for files storage, **SES** for sending emails and **EC2**. Use **MongoDB Atlas** for cloud data storage.

Django and Next.js Full-Stack Web Application – [ezPizza](#)

- A pizza shopping website where users can smoothly navigate main page and different pizza details page.
- Utilized **Django** and **REST framework** to create restful APIs, used **Next.js** and **React** for client-side.
- Deployed client part to **Vercel** and server part to **Heroku**.

Full-Stack Application based on Angular and Spring Boot – [Luv2Shop](#)

- An online bookstore supports viewing books based on categories, searching for keywords and checking out.
- Utilized **Angular** for client-side and **Spring Boot** for server-side linked with RESTful API. Created RESTful APIs with Spring Data **JPA Repositories**.
- Generated and updated component with **TypeScript** class with Angular service and integrated HTML template with **Bootstrap CSS** to style.