

# Ze Li

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## EDUCATION

- **University College Dublin** September 2024 - December 2025  
*MSc. Computer Science* GPA: 4.02/4.20
- **University of Chinese Academy of Sciences** September 2020 - June 2023  
*MSc. Theoretical Physics* GPA: 82.88/100
- **Beijing Institute of Technology** September 2015 - June 2019  
*BSc. Applied Physics* GPA: 80.58/100

## TECHNICAL EXPERTISE

- **Languages:** Java, Python, JavaScript, HTML, CSS, XML
- **Open Source Frameworks:** React, Spring Boot, Flask, SQLAlchemy
- **Databases:** MySQL, PostgreSQL, SQLite, H2
- **Testing Frameworks:** Vitest, Jest, Mockito, JUnit
- **DevOps/Cloud:** Docker, Jenkins, Nginx, AWS, Firebase
- **Developer Tools:** VS Code, IntelliJ Idea, Pycharm
- **Others:** Git, Vite, Maven, Gunicorn, TensorFlow, Sklearn

## PROJECTS

- **Storage Management App (React, Spring Boot, PostgreSQL, Nginx)** August 2025  
<https://zeli8888.ddns.net/storage-management/> 
  - Developed a responsive-design dashboard web application containing features of user login/registration, food storage listing, searching, order and meals record management.
  - Implemented user management with Firebase Authentication using JWT-based login
  - Implemented a Material UI-based dashboard, including a collapsible data grid for hierarchical data management and statistical charts for data visualization
  - Achieved 97% unit test coverage for frontend code using Vitest
  - Achieved 99% unit test coverage for backend code using JUnit and Mockito
  - Deployed the application as a Docker container on AWS using Jenkins for CI/CD automation
- **Planhattan (React, Spring Boot, MySQL, Nginx)** July 2025  
<https://zeli8888.ddns.net/planhattan/> 
  - Developed the backend of a team web application, implementing user authentication, travel recommendations, and travel plan management for Manhattan.
  - Implemented REST API using Spring Boot
  - Implemented user authentication using form-based login and OAuth 2
  - Secured user sessions by implementing CSRF tokens to prevent cross-site request forgery attacks
  - Achieved 100% unit test coverage for backend code using JUnit and Mockito

- Deployed the application as a Docker container on AWS using Jenkins for CI/CD automation

- **BikeShareApp (JavaScript, Flask, MySQL, Nginx)**

April 2025

<https://zeli8888.ddns.net/BikeShareApp/>



- Developed a responsive-design web application showing real-time bike/weather info, historical/predicted bike availability, and route suggestions with Google Maps.
- Integrated Google Maps JavaScript API to visualize geospatial data with custom markers and real-time availability heatmaps for bike stations
- Implemented an asynchronous service to deliver real-time bike and weather data
- Built and trained dense neural networks using TensorFlow to forecast bike station availability in Dublin
- Deployed the application as a Docker container on AWS using Jenkins for CI/CD automation