

# JAMES D. LU

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## EDUCATION

### NEW YORK UNIVERSITY, NEW YORK, NY

#### BACHELOR OF ARTS: JOINT MAJOR IN COMPUTER SCIENCE AND DATA SCIENCE

EXPECTED GRADUATION DATE: MAY 2025

- **Select Coursework:** Operating Systems, Basic Algorithms, Artificial Intelligence, Computer Graphics, Probability and Statistics, Principles of Data Science, Parallel Computing, Applied Internet Technology, Data Management and Analysis, Responsible Data Science, Causal Inference, and Advanced Topics in Machine Learning and Deep Learning
- **Activities:**
  - NYU Rubik's Cube Club: Eboard Member
    - As the club's software engineer, designed and developed the club website used by 100s of members
  - Data Science Club @ NYU
    - The top 10% of the incoming Freshman class for NYU CAS is invited to join
    - Specialized in researching and creating ideas centered around the applications of artificial intelligence
  - NYU Presidential Honors Scholars
    - Overall GPA: 3.931

## WORK EXPERIENCE

### THOMSON REUTERS

#### SOFTWARE ENGINEERING INTERN

MAY 2024 – AUGUST 2024

- Developed a service that utilizes AWS Bedrock and listens to a queue from AWS SQS to leverage small language models such as Llama 3 and Claude 3.5 to generate structured alerts
- Integrated new features into and provided bug fixes for an internal service that utilized the OpenAI API to assist 100s of Reuters journalists worldwide in releasing finance-related information
- Developed, updated, and provided fixes to various codebases totaling around 1500 lines of code

### DMW&H

#### SOFTWARE INTERN

JUNE 2023 – SEPTEMBER 2023

- Researched and developed internal support tools to be used by software engineers to automate repetitive tasks and assisted junior engineers in developing test cases for standard software features and functionality, leading to an increase in workflow by over 10%.
- Compiled and organized data regarding over 80 former and current clients to help the team handle new jobs better.
- Implemented a warehouse automation system for a client similar to the year prior.

#### SOFTWARE INTERN

JUNE 2022 – AUGUST 2022

- Collaborated with a team of around 5 on a warehouse automation system for a client using Visual Basic and Microsoft SQL as well as on a subsystem to upload files to the warehouse management system via FTP and SFTP.

### HONEYDEW DATING

#### SOFTWARE ENGINEER INTERN

MAY 2022 – AUGUST 2022

- Contributed as a full-stack developer to a mobile app for a small team in a startup using Typescript as well as a variety of developer tools
- Led the integration of dark mode and multilingual support, and actively contributed to the development of a paid subscription feature

## PROJECTS

### TZU CHI APP

SKILLS: REACT NATIVE, FIREBASE, OAUTH, NODE.JS

- Worked with a team of 4 to do full-stack development on an hour-logging app for the Tzu Chi Collegiate Association
- Designed and coded the front end of the app, also implemented the database of users and hours

### CONTENT RECOMMENDATION - DATA SCIENCE CLUB X PEAK AI DATATHON

SKILLS: PYTHON (SCIKIT-LEARN, MATPLOTLIB, PANDAS)

- Developed a content-based recommendation system leveraging big data from anonymized consumer datasets for a commerce company, using Python's scikit-learn machine learning library to optimize item recommendations.

### BIOGRAPHY CLASSIFICATION

SKILLS: JAVA

- Constructed an application using Java that implements the Naive Bayes Text Classification algorithm in around 300 lines of code not including documentation.
- Returns the field an individual is most likely to be involved in based on the content of their biography

### USERPOSTS

SKILLS: JAVASCRIPT, GRAPHQL, REST

- Developed an API using GraphQL hosted on an Apollo Server that allows a user to make a profile that has the ability to create and delete posts, and check the posts made by a specific user, built an alternative version using REST API rather than GraphQL.

## SKILLS

**Programming Languages:** Java, Python, C, C#, C++, JavaScript/TypeScript, SQL, HTML/CSS, Visual Basic

**Frameworks & Libraries:** React, React Native, Node.js, .NET, OpenMP, MPI, CUDA

**Cloud & DevOps:** AWS (Lambdas, Bedrock, DynamoDB, CloudWatch, SQS, SNS), MongoDB, MS SQL Server, Linux

**Tools & Platforms:** Git, Android Studio, Unity, Visual Studio, Postman, MS Report Services, OAuth, MS Office Suite