

# JERRY GAO

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

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**Northeastern University** - Master of Science, Computer Science

June 2025

**University of Oregon** - Ethnic Studies

June 2019

## TECHNICAL SKILLS

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**Languages** | JavaScript, TypeScript, Python, Java, HTML, CSS

**Frameworks/Libraries** | React, Node.js, Tailwind, NoSQL, Prisma, RESTful API

**Dev Tools** | Postman, Jest, JUnit5, Jacoco, Git, npm, Figma, Wireframing, Notion

## TECHNICAL PROJECTS

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### Backend Developer | Poker Engine

[Link](#)

*Texas Hold 'Em Game Engine*

Python | Jupyter

- Developed a Python-based Poker Game Engine for Texas Hold 'em, designed to calculate the odds of achieving various poker hands in a two-player scenario, with the capability to handle multiple hand combinations
- Implemented conditional probability evaluation functions to **dynamically evaluate and update the probabilities** of achieving ten different poker hands
- Enhanced the engine's effectiveness by integrating a **dynamically-updating data visualization feature**, using matplotlib to graphically represent hand probabilities, which dynamically changed with each card drawn

### Back End Developer | CSV Reader Script

[Link](#)

*CSV Read/Write Script*

Java | Jacoco | JUnit5

- Developed a Java-based application to read CSV files with headers, process .txt templates, and generate rewritten drafts as strings
- Implemented a highly extensible CSV parsing application, enabling **straightforward extension for additional file formats** and variable CSV header configurations, thus enhancing overall data handling flexibility.

### Full Stack Developer | Country Finder App

[Link](#)

*Web app for country information queries*

JavaScript | React | Node.js | Axios

- Utilized skills in React, Node.js, and knowledge of **RESTful API principles** to build a front-end focused program that creates a list generated from an existing public API using Axios
- Created a functional display of user-generated query-based searching with conditional list filtering returning country details such as population, cultural facts, and current weather from **calling public APIs**

## EXPERIENCE

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**Cassia**

**Mar 2021 - Jan 2022**

*Professional Chef*

- Collaborated in managing kitchen inventory enforcing strict FIFO and consolidation practices, reducing ingredient wastage and **contributing to an overall cost reduction in kitchen operations**
- Honed culinary techniques and broadened cooking methodologies through weekly practice, specifically by preparing **large-scale family meals** that served the entire restaurant staff

**AN Publishing**

**Jan 2021 - Mar 2021**

*UI/UX Intern*

- Developed wireframes for **10+ UI improvement implementations** on main company site using Figma and Wordpress
- Collaborated with other interns to **decrease editorial workload by 15%** by through efficient management of article publishing cycles through our existing WordPress website
- Expanded on the technical skills and fundamental knowledge of approaching web design through agile methodology