

JERRY GAO

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

EDUCATION

Northeastern University - Master of Science, Computer Science

June 2025

University of Oregon - Ethnic Studies

June 2019

TECHNICAL SKILLS

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

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.

Full Stack Developer | Twitter Clone

[Link](#)

Clerk-Authenticated Online Forum

TypeScript | tRPC | Tailwind | React | Next | Prisma

- Employed React, Next.js, and Tailwind to build dynamic, component-based user interfaces that allowed for **profile viewing, single post displays, and real-time updates**
- Integrated Clerk to manage comprehensive **user authentication, including login and session handling**, providing a secure and user-friendly authentication flow

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

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