

Ryota Fujinoki

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EDUCATION

University of North Texas

Denton, Texas

B.S. in Computer Science

Expected Graduation, May 2026

- **Concentrations:** Intelligence and Modeling/Simulations
- **GPA:** 3.36/4.00
- **Related Coursework:** Data Structures & Algorithms, Computer Organization & Programming, Machine Learning, Digital Logics, Statistics & Applications

PROJECTS

Pomodoro-Timer

- Developed a responsive Pomodoro Timer application using React, JavaScript, and CSS to improve productivity through timed work and break sessions
- Implemented dynamic session and project tracking with React hooks, enabling custom session durations and real-time updates
- Designed a modular, user-friendly interface with clean code architecture and effective state management for a seamless user experience

Mental Health Companion App with open AI feature

- **Developed an AI-powered chatbot** using OpenAI API and Hugging Face sentiment analysis to provide emotional support and mindfulness exercises
- **Built a full-stack mobile app** using React Native (frontend) and Node.js (backend), integrating Google Cloud Speech-to-Text and Text-to-Speech for voice interaction

SimCity – City Simulation System (C/C++)

Developed a simulation system to model the growth and impact of residential, industrial, and commercial zones in a city over time.

- Designed and implemented a city simulation in C/C++ to model the interaction between residential, industrial, and commercial zones, including the effects of pollution.
- Implemented **pollution dynamics**, simulating the spread of pollution across zones, with stronger effects for Industrial areas

EXPERIENCE

K's Denki Technical Support

Tokyo, Japan

Tech Support

September 2020 – July 2021

- Diagnosed and repaired Windows laptops, resolving hardware and software issues for customers
- Provided troubleshooting support for system errors, network connectivity, and performance optimization

Costco Wholesale

Yokohama, Japan

Backend

August 2021 – August 2021

- Assisted customers, restocked inventory, and ensured store operations ran smoothly during peak hours
- Maintained a clean and organized workspace to improve efficiency and customer experience

ACTIVITIES AND LEADERSHIP

Shiloh Terrace Baptist Church

Dallas, Texas

August 2024

- Assisted in teaching and engaging children in educational activities, promoting learning through interactive lessons and hands-on projects
- Collaborated with fellow leaders to create a positive experience for participants, fostering teamwork and a sense of community

SKILLS

Programming: Python, JavaScript, HTML/CSS, Node.js, React.js, MATLAB, C++

Tools: PyCharm, Matplotlib, AWS, Jupyter Notebooks, Git, Scikit-learn, Pandas, React Native, OpenAI API, Google Cloud

Platforms: MacOS, Windows