

Efe Celik

Education

California Polytechnic State University San Luis Obispo
Bachelor of Engineering in Software Engineering

San Luis Obispo, CA
2028

Experience

FTC Toolbox (Personal Project)

April 2024

- Developed a customized AI chatbot for the First Tech Challenge using NextJS, Supabase, and OpenAI API, assisting members of 400 FTC teams with programming, building, and other competition-related questions.
- Implemented Retrieval-Augmented Generation (RAG) pipelines to enhance the chatbot's ability to retrieve relevant information from a large dataset, ensuring precise and informative answers.

SoCal Flying Monkey (Freelance Job)

July 2023

- Developed a custom Discord bot for a YouTube influencer with 140k subscribers using Node.JS, MongoDB, and Discord API, implementing features such as a trivia game, daily facts, a leveling system, and automated moderating tools.

Datebook (Personal Project)

May 2023

- Led a team of six to develop a web application that allowed students to anonymously match with their desired dance partners using NextJS, Supabase, and Tailwind, resulting in 50% school-wide participation (~250 students).
- Managed project roles, coordinating efforts between a programmer, marketer, and videographers to ensure smooth execution and effective promotion.

Hobby Projects

Chess Engine: Developed a turn-based chess engine in C++ with core chess rules.

Raycast Plugin: Created an image hosting plugin for MacOS with over 60 downloads, utilizing JS for seamless integration.

Minecraft Plugin: Implemented a plugin in Java for Minecraft, incorporating game mechanics and player interactions.

Wikipedia Search Engine: Developed a Python web crawler that indexes Wikipedia pages and returns the top 5 related articles based on word searches.

Awards

NASA ADC Challenge - Top 3 Nationwide

April 2023

- Implemented and optimized the A* algorithm to find the shortest path, integrating factors such as illumination, elevation, slope, and communication with Earth.

NASA SPACE APPS - Global Nominee

October 2023

- Developed a program to predict future solar storm scales (G) using historical data and techniques such as machine learning and Kalman Filter.
- Created a website featuring a 3D globe to display predictions and trends interactively for the chosen date.