Enkang Yuan

(832) 530-6878 | yuan_enkang@outlook.com | enkyuan.github.io | github.com/enkyuan

EDUCATION

University of Texas at Dallas — Aug. 2023 – Present
B.S. Computer Science — *Richardson, TX*
- **Relevant Coursework**: Computer Architecture, Data Structures, Probability & Statistics, Linear Algebra

EXPERIENCE

Software Engineer — May 2023 – Present
Gather — *Dallas, TX*
- Migrated **over 29%** of the client-side code to **React Native** for added extensibility and to better serve end users
- Worked with another engineer to ship a ticketing portal that synchronizes with our backend using **Flutter Web SDK**, **Cloud Functions**, and **Stripe**
- Refactored **over 11%** of the codebase to deliver **faster rendering times** and **improved performance** for over **1500 users** across UTD and UNT

Researcher — Aug. 2023 – Feb. 2024
Drone Calibration Lab — *Richardson, TX*
- Worked with a team of 4 to ship a simulation for aerial delivery systems using **PyBullet**, **Anaconda**, and **ROS**
- Documented portions of the codebase to enhance readability and workflow efficiency

Mentor — Jun. 2023 – Jul. 2023
STEMkidz — *Katy, TX*
- Mentored the summer batch enrolled in Introduction to Hardware and IoT, explaining concepts and fundamental programming knowledge to students with non-technical backgrounds
- Coordinated lesson plans and hand-on activities with 2 other mentors to deliver interactive content with **Arduino** and hardware fabrication tools

PROJECTS

Moodscapes | *LLM-based Soundscapes* — Nov. 2023
- Collaborated with a team of 3 and developed a fully functional web application with a dynamic **JavaScript**-based client, a **HTTP**-based backend with a **RESTful server-side API**, and integrations with **GPT-4**, **Spotify's Web SDK**, and **Face API**
- Designed the user interface with **Figma** and created a development preview on **ngrok**

UTD Planner | *Nebula Labs* — Sept. 2023
- Collaborated with a team of 6 delivering bug fixes and quality of life improvements to a **full-scale** platform used by **hundreds of UTD students**
- Rewrote portions of the onboarding document to improve setups on **UNIX-based** systems

Griddy | *Backend for Banking* — Sept. 2023
- Created a **HTTP**-based service with a **RESTful** architecture to emulate banking activity, i.e., transactions, account creation, etc. Secured with **JWT Authentication**
- Built with **Go**, **Postgres**, **Docker**, and **Postman**

Parking System | *Cinco Ranch HS* — May 2023
- Worked with a team of 2 to deliver a parking management solution providing payment services and selection system for students and faculty
- Built with **Flutter**, **Firestore**, **People API**, **Stripe**, **OpenStreetMap** and **Google Maps**

TECHNICAL SKILLS

Languages: Java, C/C++, Dart, Typescript
Technologies: Node.js, React.js, Next.js, Expo, React Native, Flutter, SQL
Tools: Jira, Confluence, Figma