

# AstroStreet AR

## Design Specifications

CS 3338 – Software Engineering Tools

California State University, Los Angeles

### Group 2

Royce Jamerson

Khalid Jamil

Michael Lieng

Ricardo Ibanez

Date: December 11, 2025

# 1 Packages

The following packages must be included in the Docker container for the project to run:

- **Node.js 18-alpine:** Runtime environment for frontend and backend code.
- **PostgreSQL 15:** Database used to store player data and stats.
- **npm:** .js package manager, used to install the required dependencies.

# 2 Dependencies

- **Frontend (React + Vite):**
  - `react` — Core UI library.
  - `react-dom` — Renders React components.
  - `vite` — Development and build tool for the frontend.
  - `axios` — Used to send requests to the backend API.
- **Backend (Node.js + Express):**
  - `express` — Web framework for handling API routes.
  - `cors` — Allows communication between frontend and backend.
  - `dotenv` — Loads environment variables such as database URLs.
  - `pg` — PostgreSQL client library used to query the database.
- **Database (PostgreSQL):**
  - **PostgreSQL 15** — Primary datastore for game data.

# 3 Libraries

- `pg` — Node.js PostgreSQL client.