



Caveat



Hello!

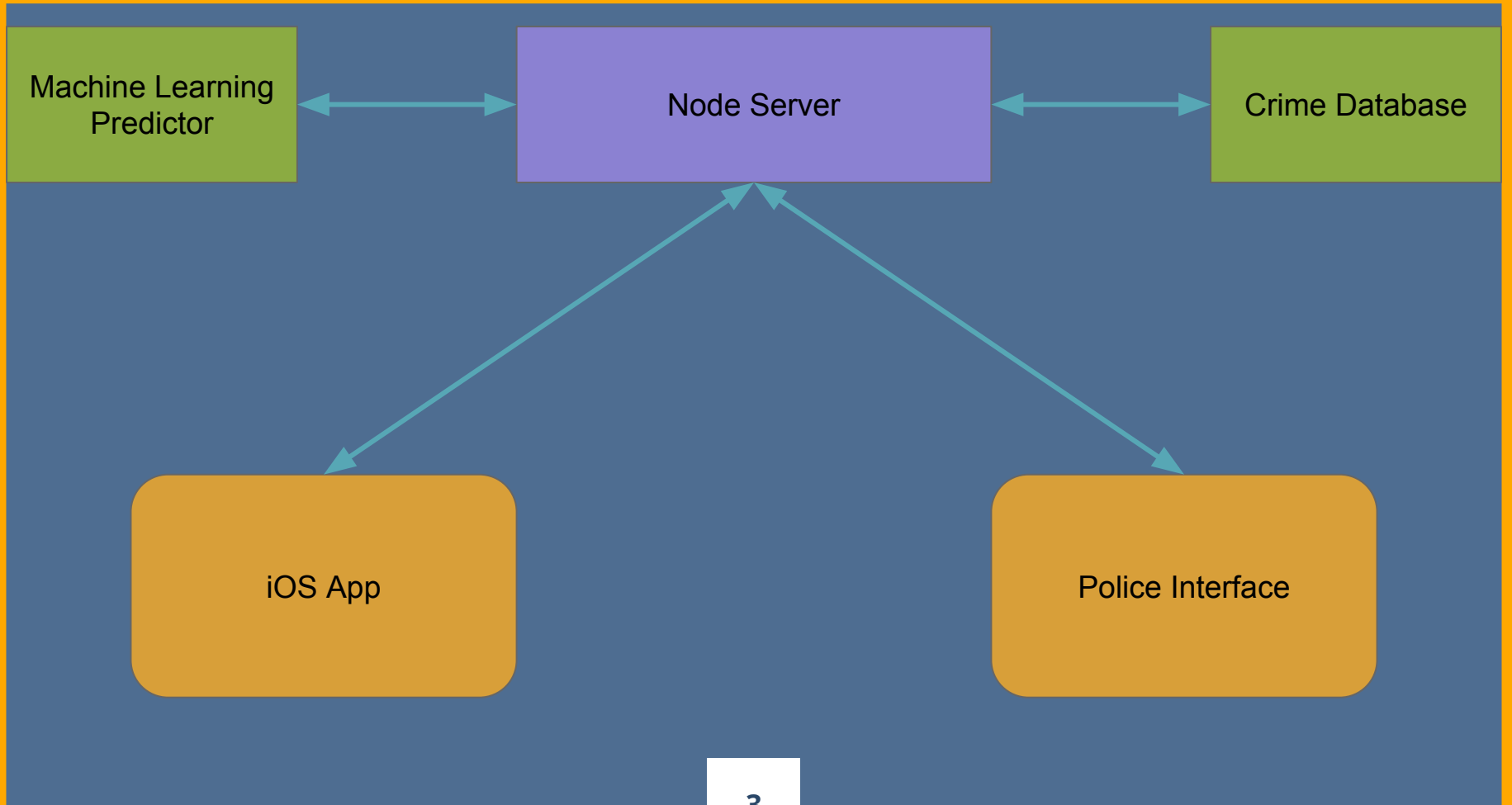
Ivan Franco - Project Manager

Ali Rahman - Lead iOS Developer

Harsh Dasika - Lead Database and Graphics Developer

Aditya Mansharamani - Lead Server Developer

Jonathan Xue & Jerry Zhou - Lead AI Developers



Database and Node Server

Mongo Database

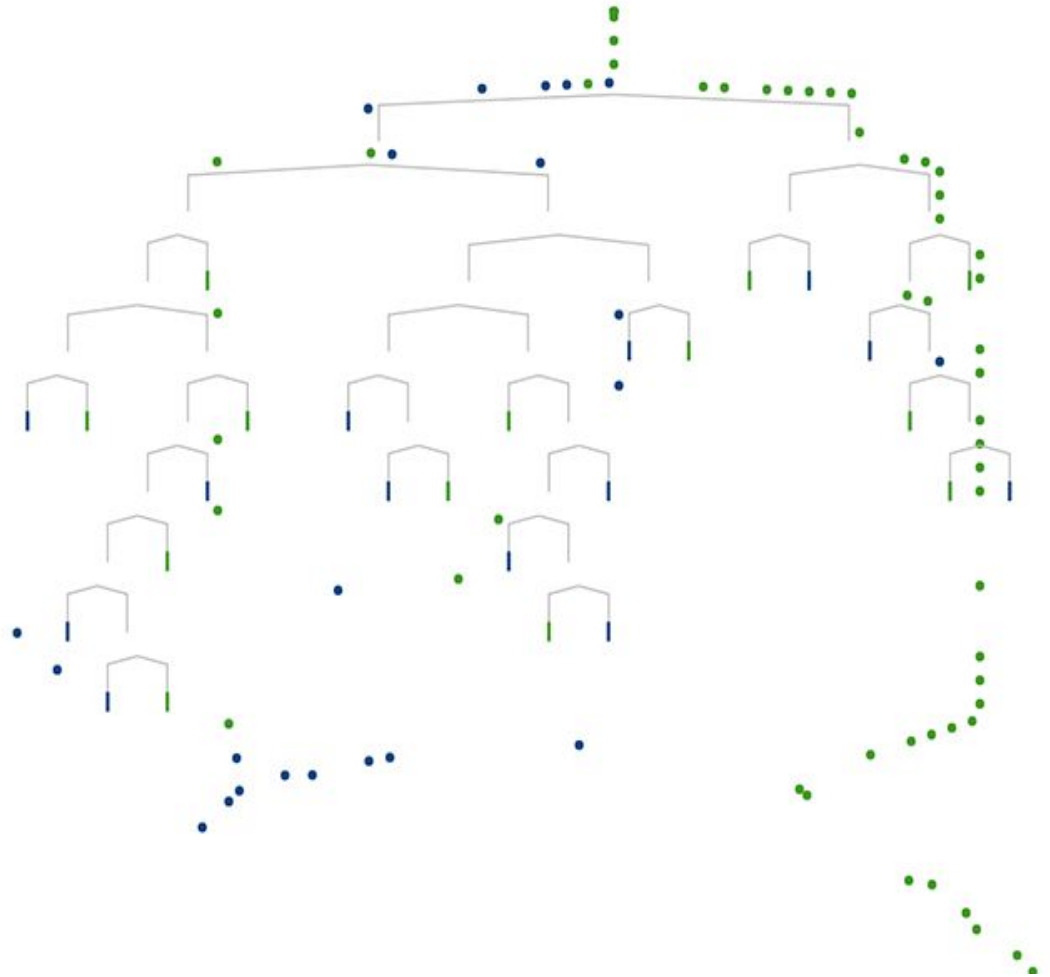
- Parsed Chicago's Crime Data files into the database
- Organized and cleaned data

Node Server

- Interface with clients
 - iOS App
 - Police Interface
- Serves data from backend databases to user-facing applications

Machine Learning

Uses historical crime data to predict the most likely crime in the user's area



Machine Learning: Crime Prediction

Inputs

- User Longitude, Latitude
- Current Time (Seconds Past Midnight)

Training Data

- Crimes Nearby
 - Longitude, Latitude
 - Time Of Occurrence (Seconds Past Midnight)

Process

- Machine Learning Algorithms formulate a set of rules to generate decision tree

Outputs

- Most probable crime to occur near the user's location



iOS App

- Displays heat map of nearby crime
- Local area analytics
- Crime prediction for area
- Voice enabled
- Widget for quick access
- Report crime as it happens

Police Interface

- View live reports of crimes from users
- Display location and type of crime
- Confirm/reject crime
- Examine past crime in a simple GUI

Demo

Police Interface

chicagocri.me

Demo

iOS App

