

# Erik Lopez

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**Summary** — Collaborative full-stack developer with expertise in backend API design, user authentication, and database architecture. Proven track record working in agile teams using .NET, React, Python, C++, and SQL to deliver scalable web applications.

## Skills

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**Languages** Python, C++, C, SQL  
**Frameworks** .NET Core, React, Django  
**Databases** MySQL, Sqlite3

**Tools** Git, Docker, Microsoft Graph API  
**Practices** RESTful APIs, Agile

## Projects

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### Mock Theme Park Website

Spring 2025

Backend Developer

C, .NET Core, MySQL

- Developed RESTful APIs for rides, tickets, and user management
- Helped design and optimize MySQL schema for performance under load
- Collaborated with frontend team on API contracts
- Helped implement React components for login, role-based dashboards, and profiles
- Configured .NET Identity with custom roles and JWT tokens

### User Management System

Spring 2025

Authentication Specialist

React, .NET Core, Microsoft Graph API

- Implemented secure authentication/authorization via Microsoft Graph
- Integrated Docker for containerized deployment and CI/CD
- Wrote unit and integration tests for security and functionality

## Experience

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### Kumon Learning Center

Jul 2021 – Present

Senior Tutor

- Pulled lesson plan workflows for 100+ students using internal tools
- Led virtual tutoring sessions via Zoom and Teams, onboarding new tutors
- Utilized bilingual communication (English/Spanish) for parent liaison

## Education

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### University of Houston

Fall 2022 – Present

B.S. in Computer Science

Minors: Math, Education

### Humble High School

Class of 2022

High School Diploma

Houston, TX

### Certifications

- TeachHouston Educator Certificate (expected 2026)