

Ismael J Lopez

ismaelopezandrade@gmail.com

<https://ismaeljlopez.com>

(630) 510-7982

Objective

Seeking to apply myself to a full stack or back-end development position, ideally working with systems or real-time data analysis, in order to advance a company's tech stack.

Education

Illinois Institute of Technology 2018 - 2021

B.S., M.S. in Computer Science
Spec: Distributed Cloud Computing
Dean's List (x3)

College of DuPage 2014 - 2017

Associate in Science
Associate in Art
Associate in General Studies

Skills

Spoken Languages

English, Spanish (mother tongue)

Programming Languages

Python, C/C++, PHP, JavaScript, Java

Other

LAMP, Nginx, AJAX, PostgreSQL, LaTeX, HTML, CSS,
Node.js

Experience

Web Developer, Canopy LLC.

2020 - Present

- Developed PHP backend for client-facing products such as cron jobs and database integration.
- Deployed production applications on a LAMP stack web server.
- Developed a REST API in Python (using Flask/Nginx).

Teaching Assistant, Illinois Institute of Technology

2019 - 2021

- Prepared supplemental materials and presentations for CS labs.
- Engaged students one-on-one to ensure understanding.
- Coverage of time/space complexity, Python, and data structures.

REU Research Assistant, Illinois Institute of Technology

Summer 2020

- Developed and executed a custom I/O system benchmark.
- Used this benchmark to test IIT's experimental I/O system LABIOS.
- Drafted and gave monthly presentations on project progress and direction.

Projects

Personal

- Custom **DynamicDNS**/Server system using Bash, Python, SSH, WakeOnLan, and Cloudflare API.
- Custom **Invoice generator** using Zipbooks API, LaTeX, Python, and Bash.
- **Portfolio** website, as well as other hobby sites, all typically using PHP, JS, and HTML/CSS.
- **Spout**, a custom Python Progress bar
- **Zentango**, a Zentangle generator web app. Winner of Best Domain in Demonhacks 2020.

Academic

- Dynamic Memory Allocator (malloc, free, realloc) using segregated free list management.
- DBMS (like SQLite) with a Buffer Manager, Record Manager, and B-tree Index structure.
- Search Engine prototype(s) using IR methods, such as PageRank and Clustering.
- Parking Reservation website using Python/Flask and Sendgrid.