LUIS NORMAN

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PROFESSIONAL SUMMARY

Graduate student at DePaul University studying Computer Science with a specialization in Software and Systems Development and Data Science. Experienced in web/api development, mobile (iOS) development, and building distributed systems. Also adept at analyzing and optimizing existing software that exhibits performance issues related to processor caching, data layout, unintended compiler interactions, and more.

EDUCATION

DePaul University   **Chicago, Illinois**
- Major: Master of Science in Computer Science
- Areas: Software and Systems Development + Data Science

- Graduation Date: June 2021
- Cumulative GPA: 3.83/4.00

Purdue University Northwest   **Hammond, Indiana**
- Major: Bachelor of Science in Computer Engineering
- Minor: Computer Science

- Graduation Date: May 2018
- Major GPA: 3.31/4.00

Relevant Coursework: Optimized C++, Distributed Systems II, iOS Development II, Object-Oriented Enterprise Computing

EXPERIENCE

Silverwork Solutions   Chicago, IL
Software Engineer – Full Time   May 2018 – July 2019
- Developed scalable and highly available software services to automate the mortgage preapproval process.
- Refactored a monolithic system into a service-oriented architecture resulting in a 4x speed increase and resilience.
- Built tools to monitor and recover downed nodes in a distributed system.
- Created and automated daily reports of key performance indicators (KPI's) that were delivered to the company's stakeholders.

PROJECTS *(Public projects can be found at Github.com/LuisNorman)*

- **Chicago Apartment Marketplace**
  Currently building an apartment marketplace platform where visitors can search for homes and landlords/leasing agents can post apartment listings. (Python/Django, React)

- **Custom Memory Manager**
  Implemented a custom memory manager that replaces the standard library memory manager that resulted in a 3.5x speed increase. (C++)

- **Blockchain for Medical Records**
  Created a program that invokes processes across the network to compete and communicate with each other to mine and verify blocks/medical records. (Java)

- **Dow Jones Prediction System Based on Article Headlines**
  Developed a sentiment analyzer that converts trending article headlines into their respective sentiment labels, then ran statistical models on those sentiment labels to predict the behavior of the Dow Jones closing price. (Python)

- **Movie Recommendation Web Application**
  Built a web application that recommends movies that have the highest predicted ratings based on the target user's rated movies and those of their top K similar users. (Python/Flask)

TECHNICAL SKILLS

- **Languages:** Java, C/C++, Python, Scala, Swift, SQL, JavaScript, HTML5, CSS3
- **Distributed Systems:** Inter-Process Communication, Transparency, Cryptography, Mobile IP, Superservers
- **Web Development:** Django, Spring Boot, React, PostgreSQL, REST, Bootstrap
- **iOS Development:** SwiftUI, UIKit, Networking, Automated Reference Counting, Realm
- **Other:** NoSQL, MapReduce, SIMD Intrinsics, Hot/Cold Data Structures, Profiling, UML