

# LUIS NORMAN

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## PROFESSIONAL SUMMARY

Software engineer with a passion for developing software that helps simplify the lives of others using modern technology. I have experience in building efficient software systems and automation scripts to help ease routine processes and test functionality. I'm currently a software engineer at Cisco Systems helping build, optimize, and test existing and new features for the components in the Application Centric Infrastructure (ACI) fabric.

## 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: 3.87/4.00

### 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

**Honor Society:** Upsilon Pi Epsilon International Computer Society

**Relevant Coursework:** Optimized C++, Service-Oriented Architecture, Distributed Systems, iOS Development II

## EXPERIENCE

### Cisco Systems

San Jose, CA

*Software Engineer II – Full Time*

July 2021 – Present

- Refactor and optimize existing code for the components in the Application Centric Infrastructure (ACI) fabric.
- Develop automation scripts to test functionality of the ACI fabric and simplify routine workflows and processes.
- Debug issues brought on by Quality Assurance (QA), managers, or team members.

### 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.
- 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](https://github.com/LuisNorman))*

- **Blockchain for Medical Records**  
Created a peer-to-peer program that invokes processes across the network to compete and communicate with each other to mine the blocks/medical records. (Java)
- **Custom Memory Manager**  
Implemented a custom memory manager that replaces the standard library memory manager which resulted in a 3.5x speed increase. (C++)
- **Dow Jones Prediction System Based on Article Headlines**  
Developed a sentiment analyzer that converts news article headlines into their respective sentiment labels then ran statistical models on those sentiment labels to predict the future behavior of the Dow Jones closing price. (Python)

## TECHNICAL SKILLS

- **Languages:** Java, Python, C++, Swift
- **Server-Side Development:** Service-Oriented Architecture, Microservices, Design Patterns, MySQL, NoSQL, REST
- **Distributed Systems:** Inter-Process Communication, Transparency, Cryptography, Mobile IP, Superservers
- **Data Science | Machine Learning:** Predictive Modeling, Visualization, ETL, MapReduce, Regression, Classification
- **iOS Development:** UIKit, Storyboard, Sensors, Memory Management/ARC
- **Tools:** Linux, Jenkins, Docker, Kubernetes, Django, Spring Boot, Python ATS, Vim, Git