

# Luis Munoz-Izaguirre

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- Personal Website: <https://luis-izaguirre.github.io/Portfolio-Website/>

## EDUCATION

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**California State University Northridge**, Los Angeles, CA

May 2024

*Bachelor of Computer Science, Engineering and Computer Science*

*Relevant Coursework:* Algorithm & Data Structures, Software Development, Advanced Web Engineering

**Antelope Valley College**, Lancaster, CA

*Associate in Physics, Mathematics, and Computer Science*

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## TECHNICAL SKILLS /SOFTWARE

- **LANG:** Java 8 || Python || JavaScript (ES6) || C || C++ || C# || SQL || HTML5 || CSS3 || TypeScript || Swift
- **SPA:** React.js || Angular.js || Node.js || ASP.Net 8 || Express.js || **MVC:** Flask || Jinja || Spring
- **RDMS:** SQL || SSMS || MySQL Workbench || AWS – RDS
- **TOOLS:** GitHub || Git || Visual Studio || VS Code || IntelliJ || JIRA (Agile) || AWS – EC2

## SPECIAL PROJECTS

### ▪ Multi-Platform Game Emulator Web Application with React, Senior Project

- Developed a full stack web application using React.js, Node.js, express.js, and SQL to host emulation of retro gaming consoles. Includes HTTP protocols via Express.js, RDBMS for user login, Rawg API, and emulators (GB, GBA, and Atari) purely written in JavaScript. Gained proficiency in reading documentation, understanding registers/instructions, bit-operations, flags, and low-level memory.
- Improved productivity by optimizing emulator performance, resulting in 20% faster execution time.

### ▪ Full Stack Web Application, Angular 16 & ASP.NET Core 8

- Developed as a comprehensive project during my advanced web engineering course to have a better understanding of SPA, MVC, Object-Relational Mapping, JWT-based authentication, authorization, and deployment. Leveraging controllers, including dedicated seed controller to populate database, and ensured efficient HTTP request handling.

### ▪ Online Store Management System

- Developed a server-side web app during my database course using Flask, HTML, SQL, MySQL Workbench, and Jinja templating. Utilizing Python language enabled APIs for data retrieval through HTTP request for SQL queries.
- The purpose of the project is to have a deep understanding of RDBMS concepts, including normalization, indexing, and efficient query processing.
- Improved efficiency by indexing and normalizing tables, reducing query response time by 30%.

### ▪ Java-like to C, Compiler

- Undertook a compiler project in Java with the goal of deepening my understanding of OO programming. Java-like C compiler supports Classes, Subclasses, Objects, Subtyping, Type-Checking, Tokenizing, Parsing and Code Generation. Enhanced team collaboration and leadership through effective version control and code review process which improved code quality and reduced bugs by 25%.

## RELEVANT EXPERIENCE

**College Math Tutor:** In this role I provided comprehensive tutoring services, while adapting to diverse student learning needs. I boosted student productivity and accelerated learning across a wide range of mathematical subjects.

**Subjects:** *Algebra, Pre-Calculus and Calculus.*

## ACTIVITIES

### CSUN Layer 8, Computer Security Club

Focusing on network technologies for students to practice skills in the command line, reverse engineer program applications and exploit weaknesses in WIFI encryption while having leadership opportunities to train beginner and advanced topics.