

# JOEL LOPEZ VILLARREAL

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## EDUCATION

### BS in Computer Science and Mathematics Minor

Southern Adventist University | Collegedale, TN.

May 2024

Academic accomplishments include 4.0 GPA, receiver of the Dr. Rahn and Natalia Shaw award, and twice winner of the Top Achiever award.

## PROJECTS

- **Go Interpreter for Lox:** An interpreter built from scratch written in Golang that interprets a made-up language called Lox. It follows the concepts provided by this book: <https://craftinginterpreters.com/>.
- **CPU Scheduling Visualizer:** A web application that visualizes to the user how a CPU schedules several processes according to the policy selected. Currently, it supports two policies: FIFO and Round Robin. The app was built using ReactJS and Typescript.
- **Real-time Multiplayer Card Game:** A .NET C# game that is composed of two projects: a frontend WPF application, and a server that listens to commands sent by the client. The server was built from scratch and only uses TCP sockets. The application protocols were also implemented from scratch.
- **Nuclear Reactor Simulator:** A web application that simulates an admin dashboard for controlling different nuclear reactors. It can toggle a cooling system, control reaction rods, fuel, etc. as well as display simple analytics to the user. The app was built using ReactJS and JavaScript.

## EXPERIENCE

### Software Developer at CIRC

Collegedale, TN.

May 2021 – August 2023

Main responsibilities for this position included full stack web development using PHP and Yii2, and development of RESTful APIs. Other frameworks such as Flutter were also used.

## TECHNICAL KNOWLEDGE

Technologies I'm fluent with: Golang, HTML, CSS, JavaScript, Yii2, PHP, Python.

Technologies I'm familiar with: Java, .NET C#, SQL, Typescript, Dart, ReactJS, ExpressJS, JQuery, NestJS, Flutter, Kotlin, TailwindCSS, SvelteKit, Docker, NodeJS.

Other useful knowledge: Fluent in Spanish and English.

## REFERENCES

### Siegwart Mayr (Senior Software Engineer at CIRC)

Collegedale, TN. | mayr@southern.edu