

# Christian A. Garcia

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## EDUCATION

Valparaiso University

Bachelor of Science in Computer Science

Minor in Mathematics

GPA: 3.854/4.000, Major GPA: 4.000/4.000

Dean's List – 2020-2023

Valparaiso, IN

August 2020 – May 2024

CIS Commit Award

## WORK EXPERIENCE

Department of Computing and Information Sciences

Technical Support Specialist

Valparaiso, IN

August 2023 – May 2024

- Deployed and optimized ~20 Ubuntu Linux lab systems by integrating NIS, LDAP, and mounted storage for centralized authentication and seamless data access.
- Automated system provisioning and software deployment using Ansible with custom YAML playbooks, ensuring consistent and reproducible configurations.
- Standardized system environments and deployed rsync/Grsync-based backup solutions in coordination with the lab administrator, enhancing reliability and recovery.

Teaching Assistant

August 2022 – May 2024

- Tutored undergraduate students in computer science courses, strengthening their skills in debugging, data structures, and algorithmic thinking through lab sessions and one-on-one support.
- Explained core computing concepts tailored to diverse technical backgrounds and learning needs.

New Prairie High School

Information Technology Staff

New Carlisle, IN

June 2019 – July 2019

- Assisted in preparing ~1,200 iPads for deployment by inspecting and configuring devices in a six-member team to ensure compliance with IT standards.
- Adhered to inventory and tracking procedures to support efficient device deployment across the school district.

## PROJECTS

“Cash Money” Citations • <https://github.com/chrgarcia19/cashmoneycitations>

January 2024 – May 2024

- Co-led the development of a full-stack citation management web application using Next.js and MongoDB on an Apache2 server in a four-person team, overseeing design, documentation, and presentations.
- Integrated the open-source Citation Style Language (CSL) library to standardize reference formatting compatible with tools like Zotero and RefWorks.
- Built RESTful API endpoints to enable efficient CRUD operations on reference data, improving both backend performance and frontend integration.

Driving Time Tracker • <https://scholar.valpo.edu/cus/1097/>

January 2022 – May 2022

- Created an iOS app in a three-person team using Swift, SwiftUI, and the Model-View-ViewModel (MVVM) architecture to assist Indiana residents learning to drive by translating customer requirements into functional features.
- Implemented GPS tracking and automated PDF generation to streamline compliance with state driving regulations.

Paint • <https://github.com/chrgarcia19/Paint-n-Suffering>

September 2021 – November 2021

- Built a Java/JavaFX image editor emulating Microsoft Paint functionality with freehand drawing, shape tools, and more.
- Designed Unified Modeling Language (UML) diagrams and Javadoc documentation to support code maintainability.
- Employed Agile workflows and unit testing to deliver a functional, deadline-driven software product.

## PROFESSIONAL ENGAGEMENT

Association for Computing and Machinery (ACM) – President

August 2023 – May 2024

- Delivered presentations on computing topics and professional development tools to the wider university community through multiple outreach and engagement events.
- Initiated a recurring speaker series exploring the intersection of computing and other disciplines, fostering cross-department collaboration and knowledge sharing.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, HTML/CSS, Java, Python 3, C, C++, Go, Ruby, Swift, PHP, Scala, R, Rust, Clojure, Lisp

**Frameworks & Libraries:** Next.js, React, Ruby on Rails, SwiftUI, HeroUI, JavaFX, Java Swing, JUnit

**Databases:** MongoDB, MySQL, SQLite, Neo4J

**Developer Tools:** Git, GitHub, UNIX Shell (bash, zsh, sh), Visual Studio Code, Apache HTTP Server

**Operating Systems:** GNU/Linux (Manjaro, Ubuntu, Fedora), Microsoft Windows, Apple macOS

**Concepts:** Model-View-Controller (MVC), Model-View-ViewModel (MVVM), Unified Modeling Language (UML)

**Additional Tools:** LaTeX, Parallel & Distributed Tools (OpenMP, MPI, CUDA), Wireshark, Ansible