

# Carlo Velarde

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## EDUCATION

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### University of Iowa

*Bachelor of Science in Computer Science*

Iowa City, Iowa

*Aug. 2022 – Present*

- **Coursework:** Comp Sci I: Fundamentals, Comp Sci II: Data Structures, Algorithms, Introduction to Software Development, Programming Language Concepts, Web Application Development, Discrete Structures
- **Activities:** ACM, The Navigators

## EXPERIENCE

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### Computer Technician Assistant

*Mesilla Valley Christian School*

August 2021 – August 2022

*Las Cruces, NM*

- Worked directly under the lead information technician on campus.
- Worked with desktops, routers, switches, printers, projectors, and other technologies.
- Led a team of 3 to properly set up over 150 computers and devices in classrooms each summer.
- Worked closely with over 20 staff and faculty to diagnose and solve technical issues.
- Took and maintained inventory of over 200 computers around campus on Excel spreadsheets.

## PROJECTS

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### Kneaded Touch Massage Website | *JavaScript, HTML/CSS, HostGator*

September 2023 – Present

- Designed, created, tested, deployed, and currently maintaining a website for a local massage business in Iowa.
- I leveraged CSS technologies such as Flexbox and media queries to ensure a responsive and aesthetically pleasing design.
- Actively working on SEO strategies to boost online visibility and drive website traffic.
- Currently working with Google Business to establish a strong digital footprint for the business.
- Secured and managed the domain and hosting through HostGator.

### Wireless Sensor Network (WARP) | *Java, JUnit 5, JavaDoc, UML*

December 2023

- Worked on an existing Java codebase that tracked the flows of a wireless sensor network.
- Employed Object-Oriented Programming principles, especially in class design and inheritance, to encourage code reuse.
- Wrote 40+ JUnit test for new and existing functions to ensure code correctness.
- Implemented 2 classes to help visualize flow latency.
- Generated JavaDocs to document method and class definitions.
- Created UML class and sequence diagrams to visualize the system architecture.

### Review App | *Python, JavaScript, FastAPI, Bootstrap*

March 2024

- Developed a fullstack web application that allows users to create, edit, delete, and read reviews about different cities.
- Created 5 RESTful API endpoints using FastAPI in Python.
- Utilized JavaScript to fetch the API endpoints and dynamically update the webpage.
- Bootstrap 5 is used for the front-end design, mainly to achieve a responsive layout across different devices.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, JavaScript, HTML/CSS,

**Frameworks:** React, FastAPI, JUnit, Bootstrap

**Developer Tools:** Git/GitHub, MongoDB, VirtualBox, VS Code, PyCharm, IntelliJ, Eclipse