

# Vera Gonzalez

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## EDUCATION

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### University of Maryland

College Park, Maryland

*Bachelor of Computer Science | Concentration in Biology*

*December 2022*

- **Relevant Coursework:** Object Oriented Programming 1 & 2, Introduction to Computer Systems, Discrete Structures, Organization of Programming Languages, Algorithms, Computer Systems Architecture, Programming Language Technologies and Paradigms, Cryptography, Web Application Development with JavaScript, Bioinformatic Algorithms, Programming Handheld Systems

## WORK & PROJECTS

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### Familiar Spirit (IOS Application)

College Park, Maryland

*Creator, Designer, & Programmer*

*May 2020 - Present*

- Engineered astronomical and astrological computation software from scratch, achieving two arcminute accuracy and performing high level data manipulation and interpretation across six distinct coordinate systems.
- Designed complex, multifunctional user interfaces, creating hundreds of individual vector assets and utilizing reusable components to attain a succinct code base of visual interfaces using MVVM programming patterns.
- Constructed intricate backend functionality using finely tuned database, security, and functions code within the Firebase infrastructure, allowing for complex behavior not limited to friend requests and push notifications.
- Designed comprehensive test suite using XCTest, Quick, and Nimble, verifying the integrity of technical computations and the functionality of user interfaces.

### [vera.lgbt](http://vera.lgbt)

Remote

*Software & Blog Portfolio*

*2021 - Present*

- Blog exploring concepts in Computer Science (e.g. Code, Cryptography), Biology, Astronomy, and Linguistics.

### Terrapin Works

College Park, Maryland

*Software Developer*

*September 2019 - December 2021*

- Developed proficiency in project management and deployment, becoming intimately familiar with Git, Jira, and the Agile approach to software development in a collaborative environment.
- Engineered software on a production scale for both internal and external applications, acquiring and utilizing proficiency in Drupal, JavaScript, TypeScript, and React.
- Deployed public facing [website](#) still in use today comprised of hundreds of individual Drupal components.

### Students for Guilford Woods

College Park, Maryland

*Project Organizer, Speaker, Web Designer*

*October 2020 - May 2022*

- Conceptualized and created website that effectively communicated environmental protection demands to a general audience with adaptive mobile design which accrued over 1,000 student signatures in favor of our cause.
- Spoke at student organized event in direct protest of administrative action to an audience of hundreds of students, community members, and elected officials, effectively halting plans for deforestation.

### ID Tech

Remote

*Teacher / Instructor*

*2019*

- Communicated abstract concepts in Computer Science to hundreds of children and teenagers in a breadth of age ranges while navigating unforeseen challenges in remote learning environments.
- Provided detailed instruction on HTML, CSS, Javascript, Python, and Machine Learning methodology.
- Independently overhauled curricula to fit the needs of individual students and foster deeper comprehension.

## PROFICIENCIES

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**Languages:** Swift, SwiftUI, Java, Javascript, C, C#, Python, Bash, React, TypeScript, Firebase Suite

**Softwares:** XCode, VSCode, Eclipse, Atom, Docker, Figma, Photoshop, Premiere, Notion

**Implementation Skills:** Agile Development, RESTful API Integration, Unit Testing, MVVM