

# Priscila Santiesteban

Computer Science & Physics Major

✉ pasantiesteban@coe.edu

in Priscila.Santiesteban

🏠 2246 S Linley Ct  
Denver, Colorado 80219

Sustaining high success academically, a first-generation minority female student with experiences in various coding software and languages; including Visual Studios, C++, and Java. Seeks to attend graduate school for computer science. Highly motivated to expand her skills.

## Education

### Coe College 2020

Bachelors of Art in  
Computer Science  
& Physics  
Minor in Mathematics

GPA: 3.8

## Software Languages

Python      Java

C++          C#

JavaScript   C

## Tech Skills

Visual Studio  
Java Development Kit

IntelliJ  
Github  
BitBucket  
TestComplete  
QA Complete  
Linux

## Conference

NNCI REU

Convocation 2019

- Gave a Talk Regarding PARADIM REU research from Summer 2019 at Cornell University.
- Gave poster session.

MINK WINK 2019

- Conference guest at Northwestern University.

## Languages

English   Spanish

## Work Experience

REUSE  
Undergraduate  
Researcher

PARADIM  
Undergraduate  
Researcher

Teacher  
Assistant of  
Computer  
Science

Software  
Engineer Intern

Resident  
Assistant  
Coordinator

### **Carnegie Mellon University (May 2020 - July 2020)**

#### **Christian Kastner: Research Adviser & Mentor**

- Conducted an independent theoretical project on patch quality in automatic program repair.
- Developed a patch ranking program that would rank patches based off of number of state and control flow changes in Java.
- Varviz and Symbolic Execution tools were used to analyze patches generated.
- Analysis of the ranked sample patches proved effectiveness of patch ranking method and algorithm

### **Cornell University (June 2019 - August 2019)**

#### **Nicole Benedek: Principle Investigator & Mentor**

- Conducted an independent research project examining the link between anomalous mechanical and thermal properties in crystals
- Applied Density Functional Theoretical simulations to examine the structure and chemistry of certain materials using LINUX and QuantumEspresso
- Published a scientific report to the PARADIM and CNF REU website of Cornell University regarding summer research
- Gave a recorded oral presentation and poster talk at the 2019 NNCI REU Convocation at Cornell University

### **Coe College Computer Science (February 2019 - May 2019)**

#### **Stephen Hughes: Computer Science Professor**

- Efficiently assisted Professor Hughes in educating and tutoring first-year students in computer science learning Python by helping them accomplish lab work and homework
- Improved understanding and skills in Python

### **LimoLink (September 2018 - February 2019)**

#### **David Weidner: Senior Software Designer**

- Efficiently developed and debugged programs before deadlines, while working well with a team or independently
- Became proficient in C# and Javascript
- Quickly and accurately learned how to use new applications used in IT and QA such as TestComplete and BitBucket
- Improved problem solving and communication skills by learning to use several resources to solve issues

### **Coe College Residence Life (August 2018 - May 2021)**

#### **Ryan Pratt: Area Coordinator**

- Promoted from resident assistant to assistant area coordinator who managed resident assistants of the female resident hall at Coe College.
- Prepared presentations and meetings for residence life training
- Assisted the Area Coordinator of the building in enforcing policies during the COVID pandemic
- Helped resident assistants adjust to COVID campus initiative and maintain relationships with their residents

# Student Involvement & Honors

## Clark Merit Scholarship

### One-Year Full Tuition Scholarship (May 2020)

- Awarded one-year full tuition scholarship for leadership, merit, and academic success at Coe College

## Richard C. and Jennifer H. Hunt

### Prize (May 2020)

- Award for showing high academic achievement in Computer science at Coe College

## Sigma Pi Sigma Physics Honor Society

### Physics National Honor Society (May 2020 - Present)

- Recognition for physics students who show academic excellence in physics at a GPA higher than 3.8

## Physics Club Secretary

### Physics Club (August 2019 - September 2020)

- Manages meetings and emails for Physics Club
- Took part in educating middle school students in basic python code with the Women in Stem Club
- Participated in the Regional Science Olympiad Competition for public schools as a judge

## Outstanding Freshman In CS

### Award (May 2018)

- Award for outstanding freshmen in computer science at Coe College

## Arthur Wright Erskine Physics

### Prize (May 2018)

- Award for outstanding freshmen in physics at Coe College

## Alpha Lambda Delta Honor Society

### Academic National Honor Society (May 2018 - Present)

- For freshmen whose GPA exceeds 3.7

# Relevant Courses Taken

## 2017

Computer Science I - Fall 2017

## 2018

Computer Science II - Spring 2018  
Calculus II - Spring 2018

Foundations of Computer Science - Spring 2018

Calculus III - Fall 2018

Data Structures & Algorithms - Fall 2018

## 2019

Object Oriented Programming - Spring 2019  
Electromagnetism - Spring 2019

Foundations of Advanced Mathematics - Spring 2019

Robotics and Advanced Electronics - Fall 2019  
Operating Systems - Fall 2019

Quantum Mechanics - Fall 2019

## 2020

Differential Equations - Spring 2020  
Database Systems and Data Management - Spring 2020

Programming Languages - Spring 2020

Mathematical Modeling - Fall 2020  
Classical Mechanics - Fall 2020

Net-Centric Computing - Fall 2020