

# Jessica Margala

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## EDUCATION

**California State Polytechnic University, Pomona**

**Expected May 2022**

Bachelor of Science in **Computer Science**

**GPA: 3.6**

**Relevant Coursework:** Data Structures Advanced Programming (Java), Design & Analysis of Algorithms, Computer Architecture, Computer Organization & Assembly Programming, C++ Programming, Numerical Methods, Statistics for Computer Scientists and Engineers (R).

**Programming & Technical Skills:** Java, Javascript, HTML, C++, Python. Microsoft applications such as Power BI, Visual Studio & Excel.

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## WORK EXPERIENCE

**USC Institute for Creative Technologies (REU)**

*Research Development Intern, Playa Vista, CA*

**May 2021 - August 2021**

- Built a web-based simulation of a two-sided marketplace platform, effectively demonstrating proper cross-side effects, that will be used in upcoming human computing interaction studies at the ICT, using HTML, Javascript, and CSS integrated with a Flask front-end framework.
- Experienced with analyzing, and writing scientific research papers, conducting and organizing user studies, and interpreting experimental data and statistics, as well as the importance of data privacy and research ethics.
- Communicated results with an oral and visual presentation to other universities during an online research symposium.

**Cal Poly Physics Department**

*Student Assistant, Pomona, CA*

**January 2019 - May 2020**

- Accurately maintained detailed records, generated reports using Excel, and streamlined administrative processes to reduce errors, improve accuracy and efficiency.

*Physics Laboratory Stockroom Assistant, Pomona, CA*

**August 2018 – May 2019**

- Set up and organize weekly experiments and demonstrations requested by professors and students.

**Planview**

*Software Development Intern, Analytics and Reporting Team, Ontario, CA*

**May 2019 - August 2019**

- Fixed several bugs in multiple SQL Server Reporting Services (SSRS) reports using SQL.
  - Refactored part of a .Net Framework Web API solution to patch a security issue detected in the project.
  - Experienced with Visual Studio 2019, as well as its debugger and testing workflow.
  - Responsible for implementing the Model of an OData Service, a RESTful API, that pipelines gigabytes of data in a consumable format by reporting software, like PowerBI, Tableau, etc.
  - Experienced in Agile software development, participated in daily Scrum meetings while managing work in JIRA.
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## ACTIVITIES & LEADERSHIP

**Northrop Grumman Collaboration Project, UGV Software Team Member**

**October 2020 - May 2021**

- Mentored by Northrop Grumman engineers and executives to develop waypoint navigation software, using Python, for an unmanned ground vehicle (emergency response unit) with the objective of locating and fetching an item.
- Utilize an IMU (MPU9250) sensor to test and develop software allowing the vehicle to navigate to different waypoints while avoiding obstacles. Use Webots software to design, simulate, and test different functionalities of the vehicle.

**Student Interest Council, Publicity Chair, Cal Poly Pomona**

**August 2020 - Present**

- Maintain and update the Council's web page, and all other council social media accounts. Disseminate information about Council and club community service efforts to local and campus media.

**AWM Chapter: Sophie's Circle, Historian & Reporter, Cal Poly Pomona**

**January 2021 - Present**

- Promote events and meetings by creating and distributing advertisements, as well as updating social media.
- Actively participate in bi-weekly meetings that promote women's representation in Mathematics by providing networking opportunities, seminars and workshops.

**ACM-W Chapter: SheCodes, Member, Cal Poly Pomona**

**August 2019 - May 2020**

- Actively participated in weekly meetings that promote women's representation in the Computer Science field. Gained exposure to different opportunities within Computer Science. Worked on projects mentored by upperclassmen.

**Ultimate Frisbee Team, Webmaster, Cal Poly Pomona**

**September 2019 - May 2020**

- Maintained communications between the team's executive board and members, while advertising tournaments and community service events. Updated all social media and websites for optimal user experience and engagement.