

# Carlo Cruz-Albrecht

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Keen to explore new things. Eager to develop my skills and ideas through unique opportunities.

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## PROJECTS

### Cosmos Web Application

November 2016

- [JAVASCRIPT] Developed an interactive game in which the user navigates the 'cosmos' and attempts to avoid invaders. For added interactivity, there is a 'sniper' mode in which the user can also attack invaders.

### Verizon App Challenge

November 2015

- Designed a healthcare app that could facilitate real-time interaction between doctor and patient. Ability to create patient profiles, search for medical professionals, set meetings, chat virtually with doctors, and upload images of symptoms for diagnosis. Developed an elementary prototype of the app with HTML.

### Interactive Shopping Spree

April 2014

- [JAVA] Created interactive and graphical 'shopping spree' game that allows users to shop for a dynamic list of products and aim for a target budget. Graphics designed for a virtual shop with products, cashier, and a receipt that grows as the game progresses. Later adapted into an applet to be embedded into a webpage.

## EXPERIENCE

### Kumon International

May 2015 - August 2016

#### Teaching Assistant

- Tutored students at Kumon, a math and reading enrichment program for grade-school students. Ensured that students grasped the concepts and motivated them to continue working and succeed outside of the classroom.

### Technology Student Association

January 2015 - May 2016

#### Secretary

- State-wide competition in a variety of computer and technology-related fields. Won 1st Place 3D Visualization for video modeling explaining the technology behind rapid rise in smart-gear.

### Solar Cup

June 2014 - May 2016

#### Captain

- Built a 16-foot-long solar-powered boat, using engineering, mechanics, and woodworking. Additionally, secured funding and taught new members essential skills. Raced the boat against 40 other schools. Elected Electrical Head 10th grade and co-captain 11th grade. Won 1st place sprint.

### Key Club

April 2015 - April 2016

#### President

- Largest student-led service organization in the world. Developed new service projects, sponsored events, oversaw committees within the club, fundraised, helped lead members.

## EDUCATION

### UC Berkeley

May 2020

#### Computer Science

- Linear Algebra and Differential Equations
- Structure and Interpretation of Computer Science

### Oak Park High School

May 2016

GPA 3.98 (UW), 4.7 (W)

Honors:

- Summa Cum Laude: *Graduated with highest academic honors.*
- AP Scholar Award: *Attained a 4.5 average score on more than 8 AP tests*

## SKILLS

- **Programming Languages:** Java, Python, LaTeX, HTML/CSS (familiarity)
- **Application Skills:** Microsoft Office (specialist)
- **Technical Skills:** Leadership, Teamwork, Tutoring, Communication

*References available upon request.*