

# Carlos Steven Vargas

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## EDUCATION

University of North Carolina at Chapel Hill | B.A. Computer Science  
Central Piedmont Community College

May 2019  
Cumulative GPA: 3.13

## COURSE WORK

- Data Structures, Algorithms, Software Engineering Lab, Modern Web Programming, Interactive Media, Objected Oriented Programming, Discrete Structures, Computer Organization, Files and Databases, Calculus I-II-III, Linear Algebra

## EXPERIENCE

### Credit Suisse Investment Bank

June 2018 – Aug. 2018

#### Data Analytics Department | Application Developer | Individual Project | RTP, NC

- Created a **full-stack** progressive web app (**PWA**) alongside vice-president of **Data Analytics** Department for individuals with supervisory roles to analyze the market through summaries of each region to compare the profit and loss of products within the bank to make an informed decision of where to invest.  
- Utilized **ASP.NET Core** framework with **Microsoft Visual Studio**, **Oracle database**, **web components**, **manifest**, **service worker** to enhance speed, push notifications to user creating a native-app experience and ultimately presented to directors globally

#### Cyber Security Engineering Team | Application Developer | Group Project | RTP, NC

- Collaborated with a team of 4 interns to create a **Shodan** scraping tool which allowed use of **API** to run queries on the banks internet facing devices to check if there were any potential weaknesses within our network to prevent attacks.  
- Utilized **Python** to write scripts to connect to the **Shodan API**, created and inserted data in collections at **MongoDB**, raised tickets within the banks' ticketing system using **RabbitMQ** to insert tickets into database to track devices that have been targeted or have poor security protection

### UNC Computer Science Department

Aug. 2017 – May 2018

#### Accessible Web Developer | Individual Project | Chapel Hill, NC

- Designed a brail keyboard immersion web app that allowed blind children to learn the position of keys through touch and sound.  
- Utilized **HTML5**, **CSS** and **JavaScript** library: **howler.js** to design the **UI/UX**.

## PROJECTS

### Chemistry Against Humanity | Software Engineering Lab (Serious Games) | Group Project

May 2018

- Students must match cards by dragging chemical structures to complete organic chemistry equations. They can compete in class via a real-time leader board. The mission is to match more reactions than your classmates, while having the least amount of errors.  
- Utilized **Node.js** framework with **Express** for our web server, **HTML5**, **CSS**, and **JQuery** to create the **UI/UX design**.

### Christmas Wish List Web App | Modern Web Programming | Group Project

December 2017

- Worked and developed a fully functional, personalized web application with dynamic **JavaScript** based front-end, and **AJAX**- based communication with a **RESTful** server-side **API**, a **relational database** that stores information of the user and wish list.  
- Designed most of the **user interface** and **user experience** within the Wish List page.

### Mine Sweeper | Modern Web Programming | Personal Project

November 2017

- Created a web application game following the rules of Mine Sweeper.  
- Used **HTML5**, **CSS**, **JavaScript**, and **JQuery** to synchronously allow to user to play this game.

### Family Promise Web Model | Code for Good JPMorgan Chase | Second Place | Group Project

October 2017

- Collaborated with a team of 6 participants from two different universities and developed a web application for a non-profit organization which assists the homeless and low-income families with different resources.  
- Implemented Administrative Control, Database & Analytics, Alerts and Reminders, and Message Threading using **Node.js**, **Express**, **Bootstrap**, **MongoDB**, and **Twilio**.

## SKILLS

**Languages:** Java(intermediate), JavaScript (intermediate), HTML5 & CSS (grid, flex), SQL(intermediate)

**Development Tools:** Eclipse, Brackets, Visual Studio, Visual Studio Code

**Frameworks/Tools:** ASP.NET Core, Git, GitHub, Adobe Xd(proficient)

**Special Skills:** Spanish(fluent), French(conversational)

## ACTIVITIES

XCEL advising program for minorities in STEM | Panelist | Chapel Hill, NC

August 30<sup>th</sup> 2018

HackGT 4 | Hackathon Participant | Atlanta, GA

October 15<sup>th</sup> 2017