Gloria Chen

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EDUCATION

Purdue University (*West Lafayette, Indiana*) Expected Graduation: 2021
Major in Computer Engineering

Thomas Jefferson High School for Science and Technology Class of 2017
Northern Virginia Community College Dual Enrollment 2015

KEY QUALIFICATIONS

- Over 4 years of JAVA programming experience
- Completed computer science courses:
    - Structured Query Language and Network Security Basics at Northern Virginia Community College
    - AP Computer Science, Web Application Design, Mobile Application Development, Artificial Intelligence and Digital Electronics at Thomas Jefferson High School for Science and Technology
- Strong math background
- Strong communication and presentation skills
- Ability to learn in a fast paced environment

TECHNICAL SKILLS

- Platforms: Windows, Linux, Unix
- Languages: JAVA, HTML, CSS, JavaScript, SQL, Python, Ruby
- Frameworks: Bootstrap, Ruby on Rails
- Libraries: d3.js, jQuery
- Techniques: AJAX, Solr AJAX
- Electronics: Schematics and hardware

WORK EXPERIENCE

Great-Circle Technologies Inc. (*Chantilly, VA*) **June 2016 – August 2016**
Intern

Worked as a database and front-end coder at Great Circle Technologies. Assisted employees in completing projects such as analyzing data sets using multiple computer

languages or creating mobile apps and visualization for data.

Built Internet of Things device to monitor air traffic data, connected car monitor to collect car data. Transferred data into CSV files from JSON objects using python, and visualized using ZoomData.

Indexed big data from files into Hadoop and then Solr. Created dashboards for data using ZoomData and Hue (part of Solr Search) for easy user-friendly access to data.

PROJECTS

Senior Web/Mobile Project   **2016– 2017**
Created a website that sorted user uploaded photos through facial recognition. Using XAMPP, AJAX and JQuery, HTML, CSS, PHP, JavaScript and d3.js.

HackTJ Mobile Application   **2017**
Created a mobile app that used voice recognition to allow users to move around on Google's Map using Android Studio.

Digital Electronics Game   **2017**
Created an electronic game using an LED matrix along with numerous logic gates, buttons, decoders, counters, and clocks.

Artificial Intelligence   **2016**
Created numerous programs using various algorithms in python including solving a sudoku puzzle.

Mobile & Web Application   **2015 – 2016**
Created numerous web and mobile applications including a website that told users how much time it would take to binge watch a movie or TV show using the IMDB and Wikipedia API as well as SQLite to store information. Using both android studio as well as HTML, CSS, JavaScript, and PHP.

HackTJ Web Application   **2016**
Created a web page for the purpose of letting students at a certain high school input whether they needed a ride and to where as well as drivers who put where they were going and how many they could drive. The website would then pair students based on if there was enough room and the direction they were headed toward. Using SQLite, HTML, CSS, and JavaScript.

LEADERSHIPS

TJHSST Relay for Life Committee 2013 – 2017
Team Captain (2016-2017) & Member (2013-2017)

Led team to raise money for the fight against cancer. Organized bake sales and other methods of raising awareness and money. Part of a select team of students at Thomas Jefferson High School for Science and Technology who put together the Relay for Life event. Tasks included finding sponsors, partners, funding, recruiting participants, and planning the event.

TJHSST LIFT 2015 – 2016
Mentor

Tutored young scholars at Franklin Middle School on academic subjects.

Steven F. Udvar-Hazy Center -Smithsonian National Air and Space Museum 2015
Interpreter

Worked as an interpreter for the museum in Discovery Stations. Discovery Stations are small booths located all around the museum that have fun activities that visitors of the museum can participate to learn more about planes, space travel, etc. Worked mainly explaining the space suit (what it was made of, why they used that material, the design of it, etc.) and how a plane flies/the important parts of a plane (the physics behind the wings, propellers, elevators, and rudder).

First Lego League (FLL) teams 2012 – 2013, 2016 – 2017
Team Mentor

FLL is a robotics competition that used NXT technology. Every year there is a scientific research theme, a technical/robotics competition aspect, teamwork aspect as well as research aspect of the competition.

Assisted in coaching Technowizards (Team number: 5338)
Team achievements for Technowizards (2012) include:
  The 1st place of Championship Award (Regional Tournament)
  The 2nd place of Robotic Performance (Regional Tournament)
  Innovation Award (State/Championship Tournament)

First Lego league Team 2007 – 2011
Team Member

Through all the competitions and activities that I have participated in, I have learned how to write NXT programs, build the attachments to complete the challenges, use LEGO DIGITAL DESIGNER and INVENTOR to present building idea and procedures, do research, work with other team members, contact experts in the fields and share our research with the community. The achievements we received are as follows:
 2011Challenge: Food Factor Challenge

Team achievements for Super Nanobot Extremes II:

        1st place of Robotic Performance (Regional Tournament)

        2nd place of Championship Award (Regional Tournament)

2009 Challenge: Smart Move

    Team Achievements:

        2nd place of Robotic Performance (Regional Tournament)

        1st place of Championship Award (Regional Tournament)

2008 Challenge: Climate Connections.

    Team Achievements:

        2nd place of Robotic Performance (Regional Tournament)

        1st place of Championship Award (Regional Tournament)

        1st place of Robotic Design (State Tournament)

2007 Challenge: Power Puzzle

    Team Achievements:

        2nd place of Project presentation (Regional Tournament)

ACTIVITES/AWARDS:

- Letter of Commendation from National Merit Scholarship Program (2015)
- Diver at Thomas Jefferson High School for Science and Technology (2013 – 2017)
  - Athletic Award: MVP award (2016 – 2017)
  - 2nd place in Virginia State 5A High School Championship (2016 – 2017)
  - 1st place in Virginia Regional 5A High School tournament (2016 – 2017)
  - Athletic Award: Dive Coaches Award (2015 – 2016)
  - 1st place in Virginia State 5A High School Championship (2015 – 2016)
  - 1st place in Virginia Regional 5A High School tournament (2015 – 2016)
  - 3rd place in Virginia State 5A High School Championship (2014 – 2015)
  - 1st place in Virginia Regional 5A High School tournament (2014 – 2015)
  - Qualified for NHSL States all three years on TJSD
- Participant in the TJHSST Hack for Programming competition (2016, 2017)
- Diver at Dominion Dive Club (2009 – present)
  - Qualified for the Diving Junior Nationals (2012)
- Swam on the Herndon Halibuts and Herndon Commanders (2008-2012)