

## SUMMARY

Software engineer interested in all aspects of software development especially in regards to VR/AR, video game, computer graphics, and geospatial technologies. Adaptable, analytical, and detail oriented self-starter with a passion for learning; able to prioritize effectively to accomplish multiple tasks with creativity and stay calm under pressure.

## SKILLS

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|-----------|--|
| Personal  | <ul style="list-style-type: none"><li>• Fast learner   Eye for detail   Problem solving skills   Experienced in fast paced high pressure environments   Bilingual; fluent in both English and Vietnamese</li></ul>   |
| Technical | <ul style="list-style-type: none"><li>• Junior-level programming skills in C++, Python, Java, C, SQL, JavaScript, HTML5, CSS</li><li>• Knowledge of mapping APIs (Carto, Google Maps, ArcGIS JS, Mapbox, Leaflet)</li><li>• Proficient with GIS software such as ArcGIS, Quantum GIS and remote sensing tool ENVI</li><li>• Experience with Visual Studio IDE, Eclipse for Java IDE, Atom IDE</li><li>• Familiar with Unity3D, JIRA, Agile, Scrum, Git, Google Analytics, MS Office, Photoshop</li></ul> |

## EDUCATION

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|---------------------|---|-------------------|
| Aug 2016 - May 2018 | <b>California State University, Fullerton</b>   | Fullerton, CA     |
|                     | <i>Master of Science in Software Engineering (MSE) - GPA 3.79</i>   |                   |
| Sep 2013 - Jun 2015 | <b>University of California, Santa Barbara</b>  | Santa Barbara, CA |
|                     | <i>Bachelor's Degree in Geographic Information Science (GIS) - GPA 3.66</i>   |                   |
|                     | <ul style="list-style-type: none"><li>• Dean's Honors: UCSB Winter 2015, Spring 2015</li></ul>  |                   |
| Aug 2011 - Jul 2013 | <b>Orange Coast College</b>   | Costa Mesa, CA    |
|                     | <i>Associate Degree - GPA 3.57</i>  |                   |
|                     | <ul style="list-style-type: none"><li>• Honor's List: OCC Fall 2011, CCC Summer 2012, CCC Fall 2012</li><li>• President's List: OCC Spring 2013</li></ul> |                   |

## EXPERIENCE

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|---------------------|---|-------------------|
| Dec 2015 - Jan 2017 | <b>City of San Jose</b>   | San Jose, CA      |
|                     | <i>Geographic Systems Specialist II</i>   |                   |
|                     | <ul style="list-style-type: none"><li>• Built web maps using Google Maps API, Apps Engine, Carto API, JavaScript, HTML5, CSS and AngularJS. See map gallery at: <a href="http://csj-mapsgallery.appspot.com">http://csj-mapsgallery.appspot.com</a></li><li>• Set up the city's pilot Open GIS Data Portal site. View site image <a href="#">here</a></li><li>• Helped migrate enterprise GIS, created and published public facing GIS REST services for basemaps, utilities, and aerial imagery: <a href="http://gis.sanjoseca.gov/arcgis/rest/services/Publish">http://gis.sanjoseca.gov/arcgis/rest/services/Publish</a></li><li>• Used ETL tool (FME) to create and update workflows for database migrations</li><li>• Performed digitization for the city's basemaps using ESRI ArcGIS</li><li>• Provided guidance to a new hire and an intern</li></ul> |                   |
| Dec 2014 - Jun 2015 | <b>University of California, Santa Barbara</b>  | Santa Barbara, CA |
|                     | <i>Software Intern - STKO Lab (Space and Time for Knowledge Organization)</i>   |                   |
|                     | <ul style="list-style-type: none"><li>• Aided post-doc and PhD students by developing programs for research projects</li><li>• Used FuzzyWuzzy for Java (a string matching API) for geocoding purposes</li><li>• Set up RESTful web service to interact with Google's Geocoding API</li><li>• Utilized Java to stream, filter, and clean Twitter data for a social media project</li></ul>  |                   |
|                     | <i>Software Intern - Center for Spatial Studies</i>   |                   |
|                     | <ul style="list-style-type: none"><li>• Project summary: sentiment analysis using Python, JSON, and CSV format to extract subjective words/ phrases from a big data set (a corpus of travel blogs)</li><li>• Aided post-doctorates by developing Python scripts to parse JSON data</li><li>• Analyzed research papers and data sets to find the best ways to extract data</li></ul>   |                   |

## PROJECTS

### *Oculus Rift VR Exploration Game*

- Immersive VR game level created with Unity3D in C#
- Explore the frozen landscape to see what awaits outside the castle walls
- Test your skill at the archery range and be on the lookout for vicious(ly cute) bunnies
- Use the Oculus Avatar SDK hand features for Touch to interact with the environment
- Project link: <http://nhibchung.github.io/project/oculusExploration/oculusExploration.html>

### *VR Labyrinth for Android Google Cardboard – based on a Udacity project*

- VR game created with Unity3D in C#
- Explore the maze to find hidden treasure within the Greek temple
- Look for hidden waypoints to get a bird's-eye view of the scene
- Project link: <http://nhibchung.github.io/project/vrLabyrinth/vrLabyrinth.html>

### *Interactive Solar System created with Unity3D Game Engine*

- 3D browser-based WebGL Solar System application
- Clickable objects and minimap
- The sun and all planetary objects created using NASA images
- Project link: <http://nhibchung.github.io/project/solarSystem>

### *Interactive Web Map of Tweets about the 2016 Presidential Candidates*

- Map of tweets about candidates for the 2016 Elections with data collected over 4 weeks
- Heatmap layer showing spatial concentration of tweets for the top six candidates
- Web map created with JavaScript, HTML5, CSS and Mapbox API
- Project link: <http://nhibchung.github.io/project/electionWebmap.html>

### *GIS Group Poster Presentation – Course Project*

- Used Java and Twitter to gather geotagged tweets containing 6 popular presidential candidates to make predictions for the 2016 elections
- Compared data with polls, performed sentimental analysis using the Stanford NLP API
- Poster Link: <http://nhibchung.github.io/project/gisPoster.pdf>

## COURSES

Sep 2013 - Jun 2015

### **University of California, Santa Barbara**

Santa Barbara, CA

Python - Intro to Computer Science (CMPSC 8)

C - Problem Solving I (CMPSC 16)

C++ - Problem Solving II (CMPSC 24)

Java - Conceptual Modeling and Programming for the Geo-Sciences (GEOG 178)

Analytical & Computer Cartography - Web Mapping with JavaScript, HTML5, CSS (GEOG 128)

Calculus with Applications 2 (MATH 3B)

Linear Algebra with Applications (MATH 4A)

Aug 2016 - Present

### **California State University, Fullerton**

Fullerton, CA

Systems and Software Standards and Requirements (CPSC 541)

Advanced Software Process (CPSC 544)

Software Design & Architecture (CPSC 545)

Professional, Ethical and Legal Issues For Software Engineers (CPSC 548)

### **Independent Coursework**

Coursera - Introduction to Game Development

Saylor Academy - Elementary Data Structures (CS 201)

Udacity - Introduction to Virtual Reality

Udacity - VR Scenes and Objects

Udacity - VR Software Development

(Note: please visit LinkedIn page for a complete list of courses)