



## Nhat Bui

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## Work Experience

### **SOFTWARE ENGINEER, RAYTHEON; SUNNYVALE, CA – 2014-PRESENT**

- Researched data mining techniques on location data for behavior and pattern analysis.
- Reported results to customer in 1-2 month sprints (presentable results at sprint-end) to demonstrate team capability and expertise to the customers.
- Integrated various tools to pipeline data from database into GIS software to better communicate results through data visualization.

### **SOFTWARE ENGINEER, NORTHROP GRUMMAN; LOS ANGELES, CA – 2012-2014**

- Introduced a new aircraft flight performance model for mission planning software to expand capabilities of an existing application.
- Facilitated suite of unit tests and functional tests, written using the Google Test framework, ensuring accuracy, stability, and further development of the model.

## Projects

### **CONTEXTUAL BANDITS IN P2P SYSTEMS (MASTER'S THESIS)**

<https://youtu.be/D1kV0Aoes18>

Investigated performance characteristics when P2P file distribution system employs contextual bandit algorithms to search for optimal peers.

### **"I PAGERANKED THE NBA"**

[https://github.com/nhatbui/nbarank/blob/master/schedule\\_rank.ipynb](https://github.com/nhatbui/nbarank/blob/master/schedule_rank.ipynb)

Experimented with algorithms from web search to do an NBA Power Ranking.

### **TEMPORAL CONTEXT FOR LOCATION-BASED RECOMMENDATIONS**

<https://goo.gl/aVGBVd>

Implemented a multi-armed bandit in parallel with a collaborative filter to enhance location recommendations.

### **LEBRONCOIN**

[lebronco.in](http://lebronco.in)

Simple hashtag ("#lebron") counter using Flask + Apache on a DigitalOcean droplet.

**Proficiencies** - Python (Proficient), MATLAB, C++, SQL, Java, Hadoop (introductory)

**Education** - Computer Science Masters, UCLA. March 2016