

WES TIBBITTS

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Full-stack developer with broad experience gathered from working in R&D • Joint BS *Mathematics and Economics* with minor in *Computer Science* from UC San Diego • Driven builder with sound technical skills and ability to learn concepts and deploy them quickly • Excellent problem solver and communicator

SKILLS/LANGUAGES

Programming/Query Languages: Javascript (*React, Meteor, jQuery*), HTML/CSS (*Semantic UI, Bootstrap*), RDF (*SPARQL, Turtle, etc*), Java, Bash/Shell, Python, C/C++, SQL, Android

Operating Systems: Linux (*Ubuntu, CentOS, RHEL*); Windows 7, 8.1, 10; OSx;

Software: AWS, Meteor, RDF Stores (*Allegrograph, Sesame, Blueprints*), NoSQL (*DynamoDB, MongoDB*), Apache/Tomcat, VirtualBox, Maven, Ansible, GATE

Proficient in French, familiarity with Spanish

WORK EXPERIENCE

Software Engineer – BAE Systems, San Diego, CA

12/2013 – Present

Cloud-Based Search Engine (10 weeks)

- As lead cloud architect, I set up and managed an AWS cloud environment for development of a search engine application to replace an outdated, legacy system. This included managing accounts, developer boxes, production servers, and cloud security for a team of more than 20 people.
- As lead UI developer, I drove the decision making process to use the Meteor platform with React and lead the rapid Agile development of the user interface to display different data types, including images, vector data, and data cards, on a list and map view with a very small team. Utilized Semantic UI and Bootstrap to develop a modern web front-end to fluidly interact with the backend search services our team developed through Java RESTful servlets.

Cloud-Based Web App (R&D) (1 year, 3 months)

- As the Semantic Web/Linked Data lead for this R&D project I created and managed Allegrograph RDF stores and tested multiple other RDF store options, including TitanDb backed by DynamoDB. I also guided multiple other projects as they explored the use of RDF.
- As the front-end lead, developed our UI to seamlessly integrate Linked Data query results (non-graph based display) using HTML, CSS, and Javascript and later lead the push to move to Meteor. Utilized Cesium and Bootstrap for visualization and built RESTful APIs to interact with back-end services.
- This project was entirely done in Amazon Web Services and a DevOps environment, where I gained familiarity with cloud architecting and security.

Web App (R&D) (5 months)

- Developed a knowledge base using Allegrograph (an RDF store) with YAGO, AIS, and other data sources.
- Developed a basic recommender to determine Objects of Interest and sort the known information about those objects.
- Set-up and manage server through Django to serve webpages built with Bootstrap, Leaflet, OpenStreetMaps, and Timeglider using Python, HTML, CSS, Javascript, and AJAX.

EDUCATION

Bachelor of Science, Joint Mathematics & Economics with Computer Science Minor

University of California, San Diego, September 2013

GPA: 3.45

UNIVERSITY PROJECTS

- **Software Engineering Course:** Developed an Android app with a team, as the Algorithm Specialist, similar to Instagram that was focused around wine connoisseurs. It was a picture based diary of wine experiences including details, comments, and ratings of the wine you had, as well as recommendations.

CERTIFICATIONS

CompTIA Cloud+ Architect Certified