Weining Hu

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EDUCATION

- **University of British Columbia** — Vancouver, Canada
  Master of Science in Statistics GPA: 3.7 — *Sep. 2016 – May. 2018*

- **University of British Columbia** — Vancouver, Canada
  Bachelor of Science in Computer Science and Statistics GPA:3.95 — *Sep. 2013 – May. 2016*

WORK EXPERIENCE

- **Amazon (Alexa Communications Team)** — Toronto, Canada
  Software Engineer Intern — *May. 2017 - Dec. 2017*
  - **SipAnalysisWebsite**: Developed an End-To-End website from front end to back end that performed data analysis for logging data generated from AWS EC2 instances and AWS ELB in Json, Cloudwatch and Timber formats. Designed novel algorithms for logging data reordering that dealt with many challenging problems appear in distributed system such as clock drift
  - **OpxBox**: Worked on OpxBox project that helped to secure and automate the process of code deployment pipeline.
  - **Nebula**: Worked on Nebula Allegiance Service to allow network connection between Native AWS service and ProdServices

- **Amazon (AWS Database Team)** — Palo Alto, USA
  Software Engineer Intern — *Jun 2016 - Aug 2016*
  - **Content Management System**: Built an backend ETL service that extracted JSON files containing content data from AWS S3 and utilized the data into final UI widgets; The project improved the efficiency of modification of customer-faced website without going through code deployment and was extended to dynamic feature access control service.

- **UBC Department of Statistics** — Vancouver, Canada
  Research Assistant — *Oct. 2014 - Present*
  - **Project1: Mixed Effect Model for Lung Cancer Data**: I worked on dataset collected from BC Cancer Agency of lung cancer patients where longitudinal data along with other infos are recorded. We intended to find pattern that lead to further cancer development with the application of mixed effect model which take into account of data dependency and missing data. (Received Undergraduate Student Research Award)
  - **Project2: Sentiment Analysis via Topic Model**: I worked on Jane Austen's novels' text dataset to perform sentiment analysis by treating each of the emotions as a hidden topic and apply probabilistic topic modeling such as LDA and utilized public Python library such as Gensim.

- **UBC Department of Statistics** — Vancouver, Canada
  Teaching Assistant — *Sep. 2016 - May 2017*
  - **Elementary Statistics for Applications**: Led weekly lab sessions and hold office hours for 40+ students with various background for fundamental statistics courses and coding in R;Received high TA evaluations feedback from students.

PROJECTS

- **My Fridge**: Alexa Skill that allow voice interaction for kitchen usage by applying Alexa Skills Kit, AWS lambda and Elastic Search.
- **Robocode Tank**: Trained a Neural Network System via Backpropagation Learning and Reinforcement learning in Robocode.
- **Animanga**: PHP Web application that utilize MySQL as backend database to provide services for Manga lovers.
- **Presto VS Redshift**: A comparative study for the performance for two services: Facebook Presto and Amazon Redshift focusing on these aspects:Storage and compute layer implementation, durability and fault tolerance, schema Management.

SKILLS

- **Programming Language**: Java, Python, R, Matlab, C/C++, HTML, CSS, JavaScript
- **Software Development**: Git, JIRA