

Zeyu (Blarry) Wang

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EXPERIENCE

AMAZON WEB SERVICES INC. | SOFTWARE DEVELOPMENT ENGINEER INTERN
Summer 2020 | Seattle, WA

- I built a documentation generation tool for the AWS Elastic Beanstalk platforms and an RPM package version tracker for Amazon Linux 2.
- I built my project on **AWS Lambda** with **CloudFormation** templates. I also extensively used other AWS services such as **S3**, **IAM**, **CloudWatch**, **CodeCommit**, and **CodeBuild**. I worked in **Java**, **Python**, and **Bash**.
- My tool & component greatly reduced the time engineers spend on manually checking package versions during platform releases, and enabled more reliable tests to ensure product quality.

PAUL G. ALLEN SCHOOL OF CSE | RESEARCH ASSISTANT
Summer 2019 - Present | Seattle, WA

- I worked on several NLP research projects with Prof. Noah A. Smith.
- I work with **very large text corpora (10G – 100G+)** e.g. NYT, and news sites.
- I research into methods to discovering changes in meaning of concepts by reading technical papers, as well as political and historical essays on hate speech for theoretical grounding.
- I discovered meaningful trends by conducting experiments using NLP techniques such as **point-wise mutual information**, **topic models (LDA, SAGE, & SCHOLAR)**, **part-of-speech tagging**, **GloVe**, **word2vec**, and **BERT embeddings**.
- I effectively communicate my findings through visualizations using **seaborn** and **Matplotlib**.

PAUL G. ALLEN SCHOOL OF CSE | TEACHING ASSISTANT
Spring & Summer 2019 | Seattle, WA

- 2 Quarters of CSE 373 **Data Structures and Algorithms** taught in Java.
- Covered **computational complexity**, **data structures** (e.g. hash tables, graphs, disjoint sets) and **algorithms** (e.g. sorting, Dijkstra's, PageRank), **git**, and **Unit tests**.
- I coded course infrastructure, conducted sections and office hours, graded homework and exams.

TIBCO INC. | SOFTWARE ENGINEERING QA INTERN
Summer & Fall 2018 | Seattle, WA

- I built test automation pipelines for my team to easily test new builds and see test results.
- I created **Jenkins** pipelines with **R**, **Bash**, and **Windows PowerShell** scripts to run automated tests. These results were reported to a **SQL** database and could be queried using an R package I built or visualized through a customized **TIBCO Spotfire** analysis.
- The tool was adopted for internal use and significantly increased the number of automated tests available to assure product quality.
- In addition, I authored comprehensive assertion tests for several R packages.

PROJECTS

MINI-JAVA COMPILER | COURSE PROJECT FOR COMPILER CONSTRUCTION
Fall 2018 | Seattle, WA

- A (mini) Java compiler featuring **floating point types**, **class inheritance**, and **dynamic dispatch**.
- Built all major components of a compilers – **scanner**, **parser**, **type checker**, & **code generator**.
- Runs basic Java programs such as binary search, quick sort, etc.

ML FLOW | PERSONAL PROJECT
2017 – 2018 | Seattle, WA

- I am deeply interested in Machine Learning so I created this side project to practice implementing various machine learning frameworks on my own.
- This project is a basic machine learning framework that is modeled after **Google's TensorFlow**, which allows you to build and train machine learning models.

EDUCATION

UNIVERSITY OF WASHINGTON
MASTER OF SCIENCE IN
COMPUTER SCIENCE BACHELOR
OF SCIENCE IN COMPUTER
SCIENCE WITH MINOR IN
POLITICAL SCIENCE
Expected June 2021 | Seattle, WA
Dean's List (All Quarters)
Cum. GPA: 3.84 / 4.0

SKILLS

PROGRAMMING

3+ years:

Python • Java

1+ years:

JavaScript • C/C++

R • SQL • Bash

0+ years:

Ruby • Go • PHP • React

TECHNOLOGY

Git • AWS • GCP • MS Azure

Linux • UNIX • Windows • Jenkins

Machine Learning • Natural Language
Processing

PyTorch • NumPy • pandas • Matplotlib

COURSEWORK

GRADUATE

Systems For Deep Learning

UNDERGRADUATE

Machine Learning

Artificial Intelligence

Database Internals

Computer Networks

Compiler Construction

SOCIETIES

Machines Who Learn (Machine Learning
Club)

Tethics (Technology Ethics Group) -
Co-Founder

Center for American Politics and Public
Policy Undergraduate Research Fellow
Swing Kids at UW (Swing Dance Club) -
Former President and Teacher

LINKS

Github:// **BBBBlarry**

LinkedIn:// **blarry**

Personal Website:// **blarry.me**