Weiwei Zhou

Computer Science · Software Engineer

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Education

University of California San Diego *GPA: 3.60/4.00*

M.S. in Computer Science and Engineering *Sep. 2018 – Dec. 2019*

Beijing University of Posts and Telecommunications *GPA: 88/100, Rank: 8/107*

B.S. in Electronic Information Science and Technology *Sep. 2014 - Jun. 2018*

Skills

Programming	Python, JAVA, Kotlin, OCaml, Prolog, C#, SQL, Linux Shell, HTML, CSS, JavaScript
Framework/Tools	Unity, MongoDB, MySQL, TensorFlow, Spark
Web Skills	Django, Express, Node.js, REST, Bootstrap, jQuery, Semantic.UI
Amazon Web Service	DynamoDB, SQS, Lambda, CloudWatch, Alexa for Business

Experience

Amazon Web Service, Alexa for Business, Software Development Engineer *Seattle, WA*

Java, Kotlin, Lambda, CloudWatch, SQS, DynamoDB, Alexa *Feb. 2020 - Now*

Amazon Web Service, Alexa for Business, Software Development Engineer Intern *Seattle, WA*

Java, DynamoDB, Login with Amazon, SQS, Coral Service *June. 2019 - Sep. 2019*

- Completed cloud side design and implementation of importing MultiModal Echo device to Alexa for Business and managing device on Alexa for Business Console, using **Login With Amazon**, **DynamoDB**, **SQS**.
- Participated in the 'Do Not Retain' data security project, responsible for part of API implementation, unit test and integration test.

Synchronoss Technologies, QA Intern *Beijing, China*

Jira, Linux Shell, Developer Tools *Mar. 2018 - Jun. 2018*

- Designed, wrote and conducted front-end test cases using **Jira** for web mail applications with high coverage, including sanity test, regression test and smoke test, and analyzed test issues using **Linux Shell** and **Developer Tools**.
- Wrote test report, and delivered suggestions for UI and UX design.

Tsinghua University, Institute of Network Sciences and Cyberspace, Research Intern *Beijing, China*

Python, scikit-learn, Matplotlib, Numpy *Mar. 2017 - Mar. 2018*

- Completed DHCP & HTTP & authentication data analysis using **scikit-learn**.
- **Paper**: 'A Multi-dimension Measurement Study of a Large Scale Campus WiFi Network', IEEE Local Computer Networks Conference, 2018.
- Assisted establishing and visualizing a new cyberspace coordinate system based on IP address and logical port, and researched on orthogonal cyberspace resource classification.

Projects

ShakAR: AR Earthquake Drill Application

Unity, C#, HoloLens, Microsoft Mixed Reality Toolkit, Agile Software Development *Sep. 2019 - Dec. 2019*

- Built an intuitive, interactive and cost effective AR app for earthquake drills with **Unity** and **C#**.
- Realized spatial surrounding area detection, providing simulation in coherence with physics and escape instructions.
- Established seismic activity level selection and spatial sounds & shaking view simulation to provide vivid experience for users.
- Provided appropriate escaping instructions and contextual feedback, which enhances efficiency per user evaluation on the drills.

HTML-based interface for NLP Classifier

Python, HTML, CSS, JS, Django *March. 2019 - June. 2019*

- led the development of a **Django** web application that allows user to make various predictions on the input text and visualize explanations for model predictions in the interface.
- Generated a supervised machine learning model for text classification with logistic regression algorithm.
- Enhanced classifier performance with hyperparameter search, different tokenization, feature engineering, etc.

Raspberry Pi based Transit Station Crowdedness Monitor Application

Raspberry Pi, Python, OpenCV, Django *Oct. 2016 - Mar. 2017*

- Participated in the design of a monitor for crowdedness observation, implemented a web application with **Django** framework which allows users to observe both historic crowdedness curve and real-time situation at the station.
- Identifyied the crowdedness through mathematical modeling and image processing using **OpenCV** in **Python**, evaluating the passenger flow at the transit stations to provide feasible suggestions on trip modes for users.