

Xue Zhou

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EDUCATION

University of Southern California, Los Angeles, CA
M.S. in Electrical Engineering

05/2019

EMPLOYMENT EXPERIENCE

Amazon

06/2021-Present

- Use core AWS technologies to design and build available, scalable, and secure back-end services and customer-facing APIs.
- Provide input into product vision, technical design, implementation, and operational decisions on an inclusive team.
- Iterate, test new ideas, and shape the future vision for game development tools and services that operate in the cloud and enable world-class connected games.
- Contribute to code reviews and development process improvements.

TECHNICAL EXPERIENCE

Hyper-parameter Optimization (Tuning) for Machine Learning

- Employed random search, grid search and genetic algorithms to optimize a variety of machine learning algorithms including: random forests, support vector machines (regression and clustering), neural nets, and principal component analysis
- Summarized performance on a variety of datasets for all models

Visual Shopping Recognition System

- Developed mobile application in Android, Java using Camera2 and Google maps API.
- Extracted text out of the product label image using Machine Learning Mobile Vision API.
- Designed and architect database of huge dataset using Azure, MongoDB.

Team File Sharing: Multiple Client

- Implemented Java desktop application for image sharing with six different web domains via HTTP protocols.
- Developed desktop J2SE client which communicates with Yahoo web services that upload images to six servers using HTML5, PHP, JavaScript, and CURL at the server side.
- Used MySQL database to keep track of the uploaded pictures.

COMPUTER SKILLS

Area of Expertise: Web Application / Software development, Data Analysis, Data visualization, Data architecture.

Languages: Java, C/C++, VB.Net, ASP.Net, JavaScript, Python and R-Language.

Web Technologies: HTML5, CSS3, RESTful Web Services, AngularJS, ReactJS.

Mobile Development: Android

Cloud Technologies: Amazon Web Services, Google Cloud.

Database/DBMS: Oracle 10g, MongoDB, PL/SQL, MySQL, NoSQL, PostgreSQL

Tools and Repositories: Eclipse, DreamWeaver, Git, Bitbucket, MongoLab, R-Studio, SQL Developer, Tableau, Spotfire, DB Visualizer.