Jeff Tian

Email: jftian7@gmail.com | Phone: (206) 519-4997 | Website: https://jeff1209.github.io/CV/

QUALIFICATIONS

- Programming languages: Java, Python, C#, JavaScript, Unix Shell, Go.
- Web: ASP.NET, Node.js, AngularJS, Ajax, jQuery, Express.js, JDBC, HTML, CSS.
- Database: MySQL, SQL Server, MongoDB, Azure Blob, Redis, Cassandra, HBase.
- Hands-on experience with designing REST API, web app, web service and middleware.
- Solid knowledge of data structures, algorithms, OOD. Knowledge of system design and testing.
- Familiar with Git, cloud technologies (Azure, AWS), Unix/Linux platform, Docker.

PROFESSIONAL EXPERIENCE

Software Engineer, Clobotics (an AI Startup), Bellevue, WA   10/2017 – Present

- Design and develop a web app (CVMan) using ASP.NET MVC that serves as an API gateway for Clobotics's computer vision services, conduct unit and integration testing, and deploy it on Azure.
- Implement a presentation layer that supports CRUD operations for CVMan.
- Extend CVMan to interface with other systems and write test plans for automation testing.
- Build and deploy a REST API design tool based on Swagger framework.
- Set up batch processing pipelines on Azure virtual machines to download/process millions of images, write Bash scripts to monitor and log downloading/processing progress.
- Redesign and improve pipeline performance from ~100 images/min to ~300 images/min.
- Write Python scripts to generate image recognition prod reports delivered to commercial customers.
- Use Azure Batch Shipyard with Docker to execute VM deployment, model training, batch processing, etc. Make the pipeline operation less manual cost and more scalable.
- Build a service to automatically generate Docker image and Batch Shipyard configuration files.
- Deliver results in a timely manner such as simulating and estimating the number of real-time QA labelers, developing scripts to resize and embed images in commercial reports, etc.

Software Developer, Dr. Shuai Huang's Research Group at UW, Seattle, WA   09/2016 – 09/2017

- Designed and developed Data Question Answering System from scratch.
- Decoupled front-end web app from backend server by implementing a RESTful middleware.
- Used Python RAKE library and Google's Word2Vec to perform NLP in question understanding.
- Collected over 100,000 datasets from UCI data repository and StackExchange for model training.
- Deployed the service at AWS, supervised daily operation to ensure a prompt and robust service.
- Analyzed DQA usage data and changed database to MongoDB to improve writing speed.
- Developed a web app using DQA to analyze, understand, and visualize brain connectivity.

Carrier Technical Management Intern, BlackBerry Ltd., Bellevue, WA   06/2015 – 12/2015

- Worked in an agile team providing technical support and solutions to various carriers and clients.
- Quickly reacted to issues from customers. Assisted in resolving over 50 sev1 issues (15% of total).
- Contributed to launching BlackBerry's first Android device (PRIV) on AT&T and T-Mobile.

EDUCATION

College of Engineering, University of Washington, Seattle, WA   09/2014 – 06/2016
M.S. in Industrial & Systems Engineering

College of Management and Economics, Tianjin University, Tianjin, China   09/2009 – 07/2013
B.S. in Industrial Engineering