Wang Rui

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EDUCATION

SIMON FRASER UNIVERSITY
Msc in Computer Science
April 2017 | Burnaby, BC
Cum. GPA: 3.92/4.33

NANJING TECH UNIVERSITY
BS in Electrical Engineering
Jun 2013 | Nanjing, Jiangsu
Cum. GPA: 90.33 / 100

SKILLS

PROGRAMMING
C/C++ • Java • Python • C#
Scala • Go • Ruby • Julia • SQL

TOOLS
Spring • Rails • Django • Flask
Spark • Docker • Redis • Hadoop
LLVM • GCC • Angular • ReactJS
Torch • Caffe • Theano • Tensorflow

TEACHING

Operating Systems
Intro. Software Engineering
Intro. Computer System
Software Design and Analysis
Intro. Computer Architecture
Fundamentals of Digital Logic & Design

COURSEWORK

Machine Learning
Design&Analysis of Algorithm
Algorithm of Optimization
Modern methods in Statistics
3D Computer Graphics
Multimedia System
Database & knowledge System
Deep Learning

LINKS

Github:// **github.com/reking**
Github:// **github.com/rekingbc**
LinkedIn:// **wangrui0902**

EXPERIENCE

SAP | Software Engineer Intern
May 2016 – Dec 2016 | Vancouver, BC
- Design new Front End Dashboard through AngularJS
- Build Restful APIs through Spring Boot, with support of Hibernate, Hana Database
- Build data processing server through Akka, Spray, deployed on tomcat server

SFU | Teaching Assistant
May 2014 – Dec 2017 | Simon Fraser University, BC
- Lab Tutor on Agile Web Application Developement of Ruby on Rails
- Lab Tutor on C++ OOP Programming
- Lab Tutor on X86-64 Assembly Programming & C Programming
- Lab Instrutor on the FPGA Programming with VHDL

SFU | Research Assistant
May 2015 – Dec 2016 | Simon Fraser University, BC
- Research on Deep Learning with application on Image Caption
- Research on Scalable Probabilisitc Inference, Nonparametric Bayesian Process
- Research on large-scale optimization, bayesian optimization, submodular optimization

DEZHIYING | Embedded Software ENGINEER
Oct 2013 - Feb 2014 | Nanjing,China and Stanford University,CA
- Trained on Coperations and Leading for startups
- Study Venture Capital and Business Communications
- Road Map Presentation to Investors and Professors

GREEN STUDIO | Software ENGINEER
Oct 2010 - Jun 2013 | Nanjing Tech University,China
- Contribute building the college website through C .NET stack.
- Organize Programming Test for College
- Attend Mathematical Modelling contest for university

PROJECT

SIMULATION OF SELF-DRIVING CAR | Deep Reinforcement Learning
Jan 2017 – April 2017| Simon Fraser University
- Develop Continuous Control Model for simulation of self-driving car
- Implement Deep Q-Learning and Actor-Critic Model for training
- Use Python based API to implement deep learning system

IMAGE QUALITY ASSESSMENT | Deep Learning
Jan 2017 – April 2017| Simon Fraser University
- Develop Siamese Model for Image Quality Assessment
- Incorporate diverse metrics for quality assessment
- Develop Video Codec pipeline of H.264 through JAVA

RESEARCH

SIMON FRASER UNIVERSITY
Statistical Machine Learning
Large Scale Optimization
Deep Learning
2014 - 2017 | Burnaby, BC

FAST DATA ACCESSABILITIES | Deep Learning
Jan 2017 – April 2017| Simon Fraser University

- Build Fast Data Accessibility for Keras(Deep Learning Framework) through leveldb and LMDB
- Experiments on IsoHash using Deep Learning Features

ADMM EXPERIMENTS | Statistical Learning& Optimization
Sep 2016 – Dec 2016| Simon Fraser University

- Research on Alternate Direction Multiplier Methods for Large-Scale optimization
- Implement Experiments on applying ADMM methods through GPU, solving Lasso, SVM on real datasets.

RECONSTRUCTION OF 3D SCENE | 3D VISION& OPTIMIZATION
Jan 2015 – April 2015| Simon Fraser University

- Develop c++ application to match two view images on the same place
- Implement 3D vision models to reconstruct to one standard image(structure from motion)
- Utilize Non-Linear Optimization tech to refine the stitched photos

RECOGNIZE MATH FORMULAS | DEEP CONVOLUTIONAL NET
Nov 2014 – Dec 2014 | Simon Fraser University

- Implement comparative experiments on ImageNet Model, LeNet and our Deep Network through common shared Linear Classfier
- Reduce High-Dimension Features to 2-D Maps, compare seperability of different features

AWARDS

2016	Graduate Fellowship	Simon Fraser University
2013	Excellent Undergraduate top 0.1%	Nanjing Tech University

SOCIETIES

2014 - 2016	Volunteer	SFU Evangelical Chinese Fellowship
2016 - 2017	Organizer	SFU Chinese Graduate Association