

Xinquan (Ricky) Wu

(812) 391-0806 ricciwoo@gmail.com
GitHub: github.com/RicciWoo

6508 130th Ave NE, Apt K201, Kirkland, WA 98033
LinkedIn: www.linkedin.com/in/xinquan-ricky-wu-006207147

EDUCATION

| | | | |
|--|---|---------------------|-------------------|
| Indiana University | <i>MS in Computer Science</i> | Bloomington, IN, US | 08/2017 - 05/2019 |
| <ul style="list-style-type: none">Courses: Algorithms Design & Analysis, Advanced Database Concepts, High Performance Big Data Systems, Advanced Operating Systems, Software Engineering, Machine Learning, Computer Vision, Deep Learning Systems | | | |
| Beijing Normal Univ | <i>MS in Theoretical Physics</i> | Beijing, China | 09/2009 - 06/2012 |
| Guangdong Univ of Tech | <i>BS in Opto-Electronic Sci & Tech</i> | Guangzhou, China | 09/2004 - 06/2008 |

EXPERIENCE

| | | |
|---|-----------------|-------------------|
| Software Engineer, Azure, Microsoft | Redmond, WA, US | 09/2019 - now |
| <ul style="list-style-type: none">Design and Implement method to enable cross region peering between virtual networksMaintaining the control plane for resource provider of bare-metal cloud servers | | |
| Data Scientist Intern, Data2Discovery Inc (Data Visualization) | Remotely | 08/2019 - 11/2019 |
| <ul style="list-style-type: none">Developed a dynamic single-page web app for Data Visualization using React.js and D3.jsDesigned and optimized templates for queries from a knowledge graph database on Neo4j | | |
| Software Developer with Python Software Foundation, Google Summer of Code 2018 | | 05/2018 - 08/2018 |
| <ul style="list-style-type: none">Implemented multi-thread capacities for image registration using Cython and OpenMPAcquired 7 times speedup with 48 threads, improved performance of image processingExperienced with scripts profiling using cProfile and line_profiler in Python and CythonParticipated in open source project, used GitHub for source control and issues tracking | | |
| Software Engineer, Top Grade Medical Equipment | Beijing, China | 06/2012 - 07/2017 |
| <ul style="list-style-type: none">Developed a software system for radiotherapy planning with 5 years' experience in C/C++Acquired 20+ times speedup by implementing a parallel algorithm on GPU using CUDA CIntegrated the software with the Linear Accelerator, passed the license tests by China's FDADesigned and optimized the geometric model of Linear Accelerator with OpenGL Libraries | | |

PROJECTS

| | |
|--|-------------------|
| Sentiment Analysis for Crypto-Currency (NLP, TensorFlow, PyTorch) | 06/2019 - 10/2019 |
| <ul style="list-style-type: none">Used the BERT pretrained model and fine-tuned on sentiment analysis for Crypto-CurrencyImplemented algorithms for aspect-based sentiment analysis using TensorFlow and PyTorchSuccessfully predicted the trend of sentiment on the market, and provided guidance for trading | |
| Hand Gesture Recognition Application (Deep Learning, Computer Vision) | 01/2018 - 05/2018 |
| <ul style="list-style-type: none">Created a data set of 600+ images, trained a CNN model using Microsoft Custom VisionImproved precision to 94% by removing confusing images, successfully recognized 3 gesturesLearned Convolution Neural Networks, trained AlexNet on CIFAR-10 using TensorFlow | |
| Social Network Web Application (JavaScript, Node.js, MongoDB, Express) | 08/2017 - 12/2017 |
| <ul style="list-style-type: none">Developed a dynamic & scalable web application based on MVC pattern using JavaScript in full stackBuilt controller logics on runtime platform Node.js, and implemented the database using MongoDBImplemented features: sign up/in/out, search, follow friends, join groups, upload papers, chat roomFollowed an agile development pattern, and won 3rd place on course project of Software Engineering | |

ADWARDS

- National Scholarship (for top 1% students) 2005, First-class Scholarship in 2014, 2015 and 2016
- 2nd Prize of Undergrad Physics Experiment Design, and 1st Prize of Undergrad Electronic Design

SKILLS

- Programming Languages: C/C++/C#, CUDA C, Python, JavaScript, SQL, HTML/CSS, Java
- Development Tools: Gatsby.js, React.js, Node.js, MongoDB, TensorFlow, GitHub, Linux