

Zequiu Wu

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Education

University of Illinois at Urbana-Champaign

2010 - 2014

Bachelor of Science in Electrical Engineering, minors in Computer Science, Math and Business
CGPA 3.93/4.00, Highest Honor Graduate, James Scholar, Dean's list 2010-2013

Technical Skills

Languages: Java, SQL, C, C++, Python, Verilog, Assembly

Frameworks: numpy, Django

Awards

Brian & Sophie Leung Scholarship, 2014

Professor N. Narayana Rao Scholarship, 2013

Research Experience

Research Assistant, UIUC Magnetic Resonance Imaging Lab

Spring - Summer 2012

Advisor: Professor Zhi-Pei Liang

- Applied sparse sampling algorithm to optimize real-time cardiac imaging reconstruction from under-sampled data
- Applied Robust Principal Component Analysis model and K-SVD method to de-noise dynamic MRI
- Analyzed constraints of each de-noising method

Research Assistant, Industrial Engineering Department

Spring 2012

Advisor: Professor Liming Feng

- Applied Gil-Pelaez and Hilbert models to obtain inversion of characteristic functions in order to compute probability densities of various financial statistical distributions
- Achieved results showing that Gil-Pelaez and Hilbert models can provide simple and fast schemes for computing probability densities of distributions while achieving accuracies

Work Experience

Software Engineer, IXL Learning

July 2015 - Present

Product Engineering

- Maintained and developed IXL web education application
- Redesigned automated system for producing weekly, personalized student reports
- Improved runtime performance of report generation by optimizing queries, in some cases by up to 50%
- Developed new features to support new school subjects added to the IXL product
- Analyzed customer data and built internal tools to generate statistics predicting students' future behavior

Software Engineer, Goldman Sachs

July 2014 - May 2015

Fixed Income Interest Rate Products

- Designed and built a verification framework for internal information security monitoring system

- Developed a next-gen, scalable fixed-income trading application to display dynamic market and trading data
- Redesigned and built real-time risk and pricing data publisher for fixed-income product transactions
- Developed fixed-income trading daily reporting system for Controller and Legal divisions
- Designed and built a prototype algorithmic trading platform with mock market and clients data

Software Engineer Intern, Goldman Sachs

Summer 2013

Fixed Income Interest Rate Products

- Designed and built a market data monitoring system to inform traders of data correctness
- Incorporated alert triggers based on market data into high frequency trading applications

Software Engineer Intern, Altera Corporation

Fall 2012

FPGA Compiler Team

- Worked on FPGA synthesis optimization and language extraction which converts hardware description language to gate level layout
- Developed a verification framework with generic test-benches and simulations for FPGA synthesis software IPs

Lab Assistant, Grainger Electrical Machinery Lab

Fall 2011

- Assembled and tested energy lab electronic components and devices

Projects

Head Tracking Makeup Mirror

Spring 2014

- Developed a makeup mirror which tracks and responds to user head movement using facial recognition techniques
- Developed and implemented a working prototype using OpenCV and Beaglebone microcontroller

Web App "Foodbase"

Spring 2013

- Developed a Django web application for local restaurants search, recommendations and reviews

Solar Panel Renewable Energy System Project

Spring 2012

- Created a ripple correlation control system to track maximum power point for PV solar panels

Remote Control Car

Spring 2011

- As part of a WECE team, built a remote control car for UIUC Engineering Open House
- Designed and built a LED matrix with changing characters as part of the remote control car

Leadership & Activities

Alumni Chair, Women in Electrical and Computer Engineering

2011- 2012

- Managed WECE alumni relations and outreach
- Contacted professors, companies and alumni to organize national conferences

Invitee, UIUC Silicon Valley Workshop

2012

- Visited different-stage companies and alumni entrepreneurs to learn about technology entrepreneurship

Member, Phi Eta Sigma Honor Society

2010 - 2014

- Engaged in various volunteer and fund-raising activities for underprivileged families