Yuhai Wang

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1600 Southwest Parkway, College Station, Texas
Computer Engineering, Texas A&M University

Objective: 2017 Full time or Internship position of Software Engineer

Education

May 2017 Texas A&M University, College Station, Texas
M.Eng Computer Engineering GPA: 3.67
Courses: Software Engineering, Database System, Analysis of Algorithms, Data Mining and Analysis, Data Science for Communications Networking, Pattern Recognition, Neural Networks, Statistical Communication Theory, Distribution Theory

Fall 2011 — Fall 2015 Southeast University, Nanjing, Jiangsu
B.Eng. Measuring Control Technology & Instruments GPA: 3.59

Awards

- Won Seventh PLD Design Contest Excellent Prize.
- Won the third price of Fifth BeiDou-Cup China Adolescents Science and Technology Invention Contest.

Technical skills

- Proficient: Ruby on Rails, Python, MATLAB, Java, MySQL, SQLite, HTML, PHP
- Familiar: C++, JavaScript, Excel, LaTeX, LabVIEW, Verilog, HDL, Solidwork, ISE

Projects

Fall 2016 **Developed Web Application**

- Developed a web application with Ruby on Rails in agile environment;
- Interviewed customer, extracted user stories, sketched low-fi user interfaces and story board;
- Coded on cloud9, collaborated on Github and deployed on Heroku;
- Assured quality by writing tests, tracking progress and measuring speed.

Fall 2016 **Developed Database Management System (DBMS)**

- Constructed compiler which translate program into parse tree, and then to logic query plan;
- Optimization by applying logic laws and estimating size parameters;
- Speed up by applying B+ tree.

Spring 2016 ***Systems Biology and Bioinformatics Platform Development***

- Developed metabolic flux simulation models to guide engineering efforts in cyanobacteria; optimize production of industrially-interesting metabolites by Flux Balance Analysis algorithm.
- Created, updated and maintained websites.

Fall 2014 ***Conducted Brain-computer Interface (BCI) Research***

- Modified optimization algorithm and drafted patent;
- Used mathematical analysis to develop and introduce new regulation term into objective function to make model robust against non-stationarity of the EEG data, led to a reduction of error rate by 10% to 20% on various subjects.

Fall 2014 ***Developed Remote Control System for Smart Homes***

- Organized team, define tasks and deadlines, managed budget;
- Supervised development of smart phone app to send commands;
- Soldered a circuit board to integrate modules including microcontroller, GPRS, AC remote controller, power source.

Spring 2014 ***Developed Deployment Plan for BeiDou Satellite (BDS) System***

- Coordinated team work and co-edit deployment plan of BDS application in multiple areas including location information service, automobile tracking, precision agriculture.

Fall 2013 ***Developed Game on Field-Programmable Gate Array***

- Coordinated team work by effective communication to develop and deploy game.

Spring 2013 ***Built 3D Printer***

- Designed crucial mechanical parts of prototype;
- Programmed with LabVIEW to control speed of a stepper motor.

Patent

Spring 2015 Method for identifying one-time motor imagery electroencephalogram signals, China, Patent Publication number CN104463206 A, Issued Mar. 25, 2015

Work Authorization: Eligible to work in U.S. without sponsorship for 36 months.