LYU Nuochen

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EDUCATION

University of Illinois Urbana Champaign   **Urbana-Champaign, IL**
College of Engineering   09/2014-05/2018
Major in Computer Engineering - BS, Cum GPA: 3.6/4.0
Expected degree conferral date: May 2018 | GRE: V158 Q170 W3.5 | TOEFL: 112

INTERNSHIP EXPERIENCES

Yahoo Inc.   **Champaign, IL**
Summer Software Engineering Intern   05/2017 – 08/2017
- Interned in the Spark team from Yahoo Big data Hadoop product family and as Apache Spark contributor;
- Debugged, improved and revised Spark Scala source code for both yahoo internal use and public community version. Public contribution: [SPARK-20713]https://github.com/apache/spark/pull/18819
- Built, enhanced, added sorting and searching in Spark history website page from static forms into javascript based Data table; Public contribution: [SPARK-21798] https://issues.apache.org/jira/browse/SPARK-21798

Huawei Technologies Co. Ltd   **Nanjing, China**
Summer Software Engineer Intern   *05/2016-08/2016*
- Made a C++ document record management system that helped programmers to easily sort, find, inquire and classify their code based on version, date, and platform;
- Network server & client testing, software performance checking (TCP/IP), wrote server log & construction documents and online-judgment test training.

New Oriental Education & Technology Group   **Shanghai, China**
Teaching Assistant Intern   *05/2015-08/2015*
- Full-time SAT & TOFEL teaching assistant & class manager for total 120 students of 3 classes;

RESEARCH

Intelligent Optics Laboratory, ECE, UIUC   **09/2016-05/2017**
- Built an depth blending algorithm using Matlab to eliminate 3D disorder in Virtual-Reality 3D display;
- Made a two layer virtual reality gear prototype with three undergrads sponsored by Huawei USA;
- Paper: "Optical mapping near-eye 3D display with correct focus cues", Opt.Lett. 42, 24752478(2017).

Web Data Mining: University Career Guide Book   **03/2017-05/2017**
- Build a multi-process & multithread python web crawler with python selenium and get 25,000 public data from UIUC alumni in LinkedIn;
- Analyzed the data with python Panda library, made a research poster displaying ranking, race, demographic, gender, job title etc;
- Got **nominated the best research project** of the year in 2017 UIUC Undergraduate Research Symposium.

PM 2.5 Air Quality Mapping   **03/2016-05/2016**
- Developed an Matlab Image processing software with GUI showing air quality map from remote satellite photos;
- Exhibited the research poster in 2016 UIUC Undergraduate Research Symposium, was interviewed and reported by university website as international student representatives;

Urban Environment Equity, ACE UIUC   **01/2015-05/2015**
- Investigated the effect of Milwaukee water clean-up program leading by Professor Bethany Cutts;
- Interviewed and surveyed local people, coding based on Alta.Ti to manage million lines of text;
- Exhibited the research poster in 2015 UIUC undergraduate Research Symposium;
- Paper: "Issues, Stakeholders, and Equity in Milwaukee's Urban River Management".

PROJECTS

Tic-Tac-Toe Gamebox, Senior Design   **09/2017-12/2017**
- Hardware game box included PCB design&soldering, microprocessor coding, LED module and A/D converter.

Red-pill OS, Computer System   **10/2016-12/2016**
- Built a Linux-like computer system featuring system calls, paging system, file system, scheduler and Interrupt.

lyulyulyu.com, Blog System   **12/2016-02/2017**
- A Ruby on Rail full stack project includes user authentication, CRUD operation, Restful Api and interface design.

HONORS AND AWARDS

- James Scholar Honor Program, College of Engineering, UIUC
- "Initiative Researcher Certification", Living Learning Community, UIUC
- Red-cross First Aid Certification

TECHNICAL SKILLS

- System & Networking: C++, C, JAVA, X86
- Web Development: Ruby on Rails, Node.js, ReactJS, HTML, CSS, JQuery, Javascript
- Research & Digital Signal Processing: Python, Matlab
- Distributed System & Big Data: Scala, Spark, Hadoop