

# Zekun Wei

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## **Education**

**University of Illinois, Urbana-Champaign, IL**      **GPA:3.73/4.0**      August 2015-May 2019(Expected)

Bachelor of Science in Computer Engineering

Minor : Statistics

College of Engineering, *Dean's List(2015-2016)*

Skills: **Java/Java EE** | *fluent 3+ years experience*, **Python** with Pandas, SciPy, NumPy libraries | *fluent 2+ years experience*, **C++** | *fluent 2+ years of experience*, **C** | *fluent 2+ years of experience*, **C#** | *fluent 1+ years of experience*, **R** | *1+ years of experience*, **SQL** | *1+ years of experience*, **Swift** | *1+ year of experience*, **System Verilog** | *1+ years of experience*, **Years of Linux(Ubuntu and GNU), Windows and Mac OS experience**

## **Work Experience**

**National Center of Super Computing Application | Data Science Intern | August 2017 - Present | Champaign, IL | PYTHON, R, NODE.JS, SQL**

- Collaborate in a team of four, responsible for analysis and visitation of computational material science data
- Create a simple REST API for a database in SQL Server using Node.js and Express and mssql
- Returning results in JSON format that can easily be treated by a web application, mobile, another REST service
- Conduct clustering and regression analysis on different spectrums of data using pymining and pandas
- Use Data Cuboid technology to find frequent pattern among large data set.
- Use Tensorflow to construct the analysis model and train the material science spectrum data

**GSI | Software Engineering Intern | May 2017 - September 2017 | Champaign, IL**

**PYTHON, C#, C++**

- Collaborated in a team of two, responsible for Virtual Reality web & Mobile design and implementation
- Use Spark as framework to pass the data from data base to the frontend webpage
- Conducted the transformation of matrix vector in Vesta format
- Visualized the .xyz molecule data in .fxb file format using python script
- Wrote script in c# on Unity to visualize the molecule data in Google Day Dream for education purpose

## **Project Experience**

**ANDROID WEATHER APP | JAVA**

- Wrote code in JAVA to build an android weather APP in Android Studio
- Used OkHttp client for sending and receive HTTP-based network requests
- Available on Google Play Store

**Simple Computer SLC-3 | SystemVerilog, C**

- Design a simple microprocessor using SystemVerilog
- Build a CPU with a Instruction Register, a Memory Address Register and a Decoder using Systemverilog
- Complete the function on FPGA board of different instructions like LOAD, STORE, BR, TRAP etc.

**IZIPER | SWIFT, C, Arduino**

- Design an electronic zipper to notice people when zips on their bags are open
- Wrote code in swift to build an IOS App for notification of zipper when bags are open
- Wrote code in C and Arduino to build and test the electronic zipper

**VISIBLE PHYSICS WORLD | C#, Unity, Oculus Rift**

- Wrote script in C# to build a micro world to illustrate different physics knowledges in the Virtual Reality world using unity with Oculus SDK
- This project was being used and tested on a 200 level physic class in University of Illinois

**Courses:** *Data Structures, Applied Machine Learning, Big Data, Data Mining, Virtual Reality, Probability with Engng Applic, Computer System & Programming, Analog Signal Processing, Embedded System*