

# Shicheng Zhou

•Email: uofiszhou42@gmail.com

•Phone: (217) 904 - 6586

•Linkedin: [www.linkedin.com/in/szhou42](http://www.linkedin.com/in/szhou42)

## OBJECTIVE

Looking for a software development engineer intern position for Summer 2019.

## EDUCATION

University of Illinois Urbana-Champaign

M.S in Computer Science (Dec 2019)

B.S in Computer Science & Statistics (May 2018) CS Tech GPA: 3.87 / 4.0 Overall GPA: 3.74 / 4.0 Dean's List (2015, 2016)

Related Coursework: Operating System, Computer Networks, Algorithms, Database Systems, Computer Architecture

## WORK EXPERIENCES

**Citrix Systems, Inc**

**June 2018 to Aug 2018**

Software Engineering Intern | High-Definition User Experience Team (Intern Presentation slides: <https://goo.gl/cSxYkB>)

- Product: XenDesktop, a desktop virtualization software and a core product at Citrix Systems.
- **Windows application level, kernel level, and multi-threaded network programming in C++.**
- Redesign network file system driver syncing mechanism and implement an Incremental Data Synchronization algorithm which **speeds up network file system syncing by 200%**, greatly improving performance and user experience under high latency.

**Umiuni(startup)**

**Dec 2017 to Present**

Software Engineer (Web Development)

- Umiuni is an online second-hand market website founded by an UIUC alumni and has **thousands of monthly active student users** in UIUC, NYU and the Bay Area (**Website URL:** <https://www.umiuni.com/>).
- Design and implement the homepage for listing second-hand goods, promotional ads from local stores/restaurants with **React JS, Redux, Axios, JQuery and Bootstrap.**
- Built **NoSQL database(MongoDB)** for storing second-hand goods postings, promotional ads and user profiles data.
- Create **RESTful APIs** which handle requests for second-hand goods data from the browser, Android and iOS app, using **Node JS and Passport JS.** Create and setup **Docker** containers to smooth code production.

**University of Illinois at Urbana-Champaign**

**Aug 2017 to Dec 2017**

Course Assistant (Intro to Computer Science)

- Host office hours to help hundreds of students with conceptual questions on **Java**, algorithms and debugging.
- Passionate about teaching problem solving skills. Capable of explaining complex concepts in simple terms.

## SIDE PROJECTS

**eduOS (Open Source Project, github: <https://github.com/szhou42/osdev>)**

**June 2016 – Nov 2017**

- An open source educational operating system written from scratch in C and assembly. Starred and forked by hundreds of students.
- Support virtual memory, multitasking, ext2 filesystem, networking, and graphical user interface.
- Implement a memory allocation algorithm which beats Linux's counterpart by **10% in memory efficiency** by implementing the Boundary Tags memory allocation algorithm and optimizing on memory fragmentation.
- Design and implement an original Graphical User Interface system that achieves **an average of 35 fps** with an optimized version of Painter's algorithm.

**iBlog (Side Project)**

**Sep 2016 to Dec 2016**

- iBlog is a blogging system that allows one to post articles, show project portfolio, and to document one's academic/career path.
- Apply microservices architecture to build user authentication, articles/portfolio and other data storage with **Express JS, RESTful API, Mongoose(MongoDB) and Passport JS.**
- Design and implement the homepage, project portfolio page with **HTML/CSS, Bootstrap, React JS and Redux.**

**iTrust Hospital Management System (Group Project, github: <https://github.com/szhou42/iTrust>)**

**Aug 2018 to Dec 2018**

- Organize weekly meetings to conduct planning game, assign tasks and discuss progress made last week (keep everyone productive).
- Follow the Extreme Programming practices such as continuous integration, pair programming and refactoring.
- Implement two new features 1) scheduling doctor's appointment and 2) assigning caregiver for patients with **Java, JSP, XHTML, JavaScript, AJAX, MySQL database and MVC Design Pattern.**
- As a developer, I communicate with the Quality Assurance team to conduct White Box testing which achieves **90% code coverage.**

## ACTIVITIES & AWARDS

Kaggle Machine Learning Competition: Predict Future Sales (ranking top 1.5%, 11 / 750)

Departmental Honors: High Distinction STAT/CS, Dean's List (2015, 2016)

## SKILLS

Java, Python, C/C++, JavaScript, HTML/CSS, System Programming, Docker, GIT, Node JS, React JS, MongoDB, MySQL, AWS