Shicheng Zhou

•Email: uofiszhou42@gmail.com   •Phone: (217) 904 - 6586   •Linkedin: www.linkedin.com/in/szhou42

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, Web Programming, Algorithms, Database Systems, Computer Networks, Computer Architecture, User Interface Design, Software Engineering, Software Testing

WORK EXPERIENCES

Software Engineer, Intern   **Dropbox (Upcoming internship for Summer 2019)**   **May 2019 to Aug 2019**

Software Engineer, Intern   **Citrix Systems**   **June 2018 to Aug 2018**
• Product: XenDesktop, a desktop virtualization software and a core product at Citrix Systems.
• Redesigned network file system driver syncing mechanism and implemented a block-level sync algorithm which **speeds up directory syncing by 200%**, greatly improving performance and user experience under high latency.
• Leveraged knowledge in C++, kernel-level multi-threaded programming and network protocols(TCP).

Software Engineer, Intern   **Umiuni (Startup)**   **Dec 2018 to May 2019**
• Umiuni is a website that provides on-campus information about housing and restaurants (https://www.umiuni.com/).
• Shipped a restaurant activity feature that allows restaurant owners to post promotional activities, while customers can participate by scanning a bar code in a restaurant. The feature directly leads to 5% of user growth for Umiuni.
• Created procedures and scripts for setting up front-end and back-end development environments using Docker, saving more than 20 hours of time for onboarding new hires in Umiuni. Formalize code production procedures to reduce site outages due to negligence.
• Leveraged knowledge in React, Axios, Bootstrap, Node JS, MongoDB, PM2, AWS, GIT and Docker.

Course Assistant   **University of Illinois at Urbana–Champaign**   **Aug 2017 to Dec 2017**
• Hosted office hours for Intro to Computer Science to help 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, https://github.com/szhou42/osdev)
- Started an open source educational operating system written from scratch in C. Starred and forked by hundreds of students.
- Support virtual memory, multitasking, ext2 filesystem, network stack(IP/UDP/DHCP/ARP), and graphical user interface.
- Implemented a memory allocation algorithm with performance close to Linux's counterpart by implementing the Boundary Tags memory allocation algorithm and optimizing on memory fragmentation.
- Designed and implemented an original Graphical User Interface system that achieves **an average of 30 fps** with an optimized version of Painter's algorithm.
- Utilized C Programming, Vim, Computer Graphics algorithms, Operating System internals and wrote 15,000 lines of code.

SpentViz (Group Project, https://github.com/szhou42/Spentviz)
- SpentViz is a web-based dashboard that tracks your daily spending and provide insights and data visualizations to help you understand your spending patterns.
- Designed and implemented a dashboard that visualize spending with bar charts, pie charts with React, Axios and Bootstrap.
- Designed NoSql(MongoDB) database schemas and implemented Restful API end points for retrieving spending history data.
- Utilized React, Axios, Bootstrap, MongoDB, Node JS and GIT.

iTrust Hospital Management System (Group Project, github: https://github.com/szhou42/iTrust)
- 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.
- Follow the MVC design pattern to facilitate project development process.
- Implement new features such as scheduling doctor's appointment and assigning caregiver for patients with **JSP, XHTML, JavaScript, and MySQL database.**
- 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)

SKILLS

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