

SHAAN SHEKHAR

shekhar5@purdue.edu | +1 312-809-7576 | [linkedin/shaanshekhar](https://www.linkedin.com/in/shaanshekhar) | [github/sshekh7](https://github.com/sshekh7)

ADDRESS: 206 QUINCY ST, WEST LAFAYETTE IN 47906-3025

EDUCATION

PURDUE UNIVERSITY

Master of Science in Computer Science

West Lafayette, IN | Aug 2022 ~ May 2024

UNIVERSITY OF ILLINOIS AT CHICAGO

Bachelor of Science in Computer Science

Chicago, IL | Aug 2018 – Dec 2021

GPA: 3.85 out of 4.0

PROFESSIONAL EXPERIENCE

UNIVERSITY OF ILLINOIS AT CHICAGO | TEACHING ASSISTANT (TA)

Chicago, IL | Aug 2021 – Dec 2021

- Designed, developed and debugged solutions for course projects (Flutter, Android Studio), that acted as framework for colleague TAs for grading student work, hence reducing turnaround times by 25%, minimizing grading errors and significantly improving quality of feedback on student's work.
- Conducted mandatory one-on-one discussion sessions, stipulating students to discuss doubts, course materials and explore career options in mobile application development field, hence improving class engagement and productivity by 40%.

ED&F MAN CAPITAL MARKETS | IT SUPPORT ENGINEER INTERN

Chicago, IL | May 2021 – Aug 2021

- Prepared automation scripts (PowerShell, Python) for onboarding new employees by replacing traditional techniques, and making onboarding process errorproof, and about 88% faster.
- Rebuilt 50+ dilapidated PCs and troubleshooted 100+ machines by updating hardware and software and enhancing security, saving over \$20k on new PCs, and improving performance by 45-50%.
- Documented 30+ company applications (parts, assembly, installation, maintenance, usage) by creating a unified library of 2000+ pages of instructions, leading to a 70% decrease in application related issues.

UNIVERSITY OF ILLINOIS AT CHICAGO | COMPUTER LAB AIDE

Chicago, IL | Aug 2019 – May 2020

- Improved network infrastructure for troubleshooting and maintenance of lab machines (Proxmox, Icinga2, Apache2) by enhancing security, enabling 24/7 monitoring and remote IT support, saving 8-10 hours/week, and making the support process overall much faster and more convenient.
- Redesigned UIC's faculty webpage (React JS) by modernizing design elements and integrating API calls for automatic information updates, hence improving security and impact fullness of the webpage.

PROJECTS

- Cloudgile (Jira clone)** | Web Development | *React, Firebase, Node.js, Socket.io, Jira, Git*
 - Implemented agile techniques (scrum meetings, product backlog, code review) in team project to develop a scalable and high-volume, cloud-based issue & project tracking web application.
 - Utilized cloud database management (firebase) for live chat, syncing user data, and updating UI components, hence providing a real-time and user-friendly experience.
- Chat Server** | Software Development | *Java, JavaFX, JUnit Testing, Maven*
 - Enforced multi-threading and concurrent programming techniques to develop a full-stack scalable chat application supporting up to 10,000 clients at any given instance.
 - Effectuated socket programming framework to enable server logging and broadcast messaging.
 - Employed JUnit testing framework to stress-test application in case of server overload.
- 15 Puzzle** | Artificial Intelligence | *Java*
 - Devised solutions for 15 puzzle game using linear programming and nonlinear optimization (BFS, IDDFS, IDASTAR) to find the most efficient solution to a any given board configuration.
- Airline Passenger Satisfaction Model** | Machine Learning, Data Science | *Python, MySQL*
 - Employed machine learning algorithms to construct a classification model on a large scale dataset from passenger survey, producing open ended results on factors affecting satisfied and dissatisfied customers, and comparing results from multiple binary classifiers.
- A Home-Brew Web Server** | Systems Programming | *C, HTTP, Linux*
 - Developed custom TCP application employing industry standard networking protocols, which served requested files utilizing a distributed systems framework and serving files via Common Gateway Interface (CGI).

TECHNICAL SKILLS

Languages: Java, C++, Python, C, JavaScript, F#, HTML, CSS

Relevant Courses: Data Structures and Algorithms, Web Development, Software Development, Mobile Application Development, Full Stack Development, Object Oriented Programming, DevOps, Automated Testing, Computer Architecture, Information and Cybersecurity