

Thomas Sieben

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EXPERIENCE

iManage, Chicago, IL

March 2019 – present

Software Engineer, *Manager: Randy Darling*

iManage Drive Development Team

- Created a Python/C interface to connect to a Windows file system minifilter in order to intercept native file system events and callbacks; this kernel-level filter is in use by over 1000 clients
- Implemented the architecture and design of the minifilter and reparse point structure to allow offline file stubs in Windows Explorer, similar to OneDrive Files On-Demand
- Took ownership of development and maintenance of the minifilter repository, integrating new features, callbacks, and tests utilizing PyTest and Jenkins
- Designed and created REST API tests and framework within the department of Quality and Performance Engineering to validate the APIs used by iManage Work, Share, and Drive
- Collaborated with manager in design of iManage Drive's diagnostic and debugging tool; this tool allowed users running a nightly version to verify their documents were syncing correctly
- Developed Drive UI with PySide2, using multiple threads to run different UI features and tests
- Mentored and fostered the professional development of three interns through weekly 1-on-1's, code reviews, and debugging sessions
- Engaged with large legal, corporate, and financial firms to support iManage Drive

EDUCATION

Northwestern University, Evanston, IL

December 2018

Robert R. McCormick School of Engineering & Applied Science, Murphy Scholar

Bachelor of Science, *cum laude*, Computer Science

Relevant Courses: Data Structures, Algorithms, Machine Learning, HCI, Artificial Intelligence, Programming Lang., Game Design, Computer Vision, Networking, Physics, Calculus

Relevant Projects: **Systems & Concurrent Programming in Rust** – messaging chat client web app
Game Design Studio – 2D-platforming Unity + C# video game

TECHNICAL SKILLS

Proficient: Python (PyTest, PySide2/Qt, ctypes) | SQL

Familiar: C++ | C# | Rust | JavaScript

Tools: Windows, MacOS, Unix | Git | Jenkins | Unity | LaTeX

INTERSHIPS

Northwestern CS Department, Evanston, IL

April – December 2018

Peer Mentor TA: *Intro to Programming for Non-majors, Game Design & Dev.*

ProMazo, Chicago, IL

January – March 2018

Consultant

- Provided guidance for our client, a large international credit rating agency, TransUnion
- Prepared and conducted stakeholder meetings and documented internal demand for enterprise-wide BI capabilities
- Reported findings to the SVP of Global Technology which drove analytics go-forward strategy

CONFERENCES + SEMINARS

File System MiniFilter Seminar – OSR, Manchester, NH

August 2019

O4U Tech Conference, San Jose, CA

September 2018