

# JANE HSIEH

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## EDUCATION

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**PhD in Software Engineering from Carnegie Mellon University** August 2020 - Present  
**Bachelor of Arts from Oberlin College** August 2016 - May 2020  
Majors in Computer Science and Mathematics, Concentration in Cognitive Sci. (Major) GPA: (3.77) 3.71

## PROJECTS

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**Support Portal at IBM** Summer 2020  
*Software Enginner Intern on IBM's Toolbox Team* Raleigh, NC  
Conducted user research with administrators to reveal internal productivity painpoints and devise solutions  
Developed drivers in Slack and Github to provide self-service features that normally require admin privileges  
**Interactive Terminal Application for IBM's Multicloud Manager** Summer 2019  
*Extreme Blue Technical Intern, managed by Ross Grady* Raleigh, NC  
Conducted user research with internal Kubernetes operators to identify relevant painpoints  
Developed vi-based tool for multicloud applications using Python's curses library and Agile practices  
Co-created the multicloud-incident-response-navigator project, now open-sourced on IBM's public cloud  
**UNAKITE Chrome Extension** Summer 2018-2019  
*REUSE Program at Carnegie Mellon University, advised by Brad Myers & Aniket Kittur* Pittsburgh, PA  
Conducted user studies at the HCI institute, designed and implemented interface improvements using React  
Published and presented findings at 2018 *VL/HCC* and continued research through remote collaboration  
**Characterizing and Separating Magnetic Nanoparticles** 2016 - 2018  
*STRONG Pre-First-Year Program, advised by Yumi Ijiri* Oberlin, OH  
Assisted in making design improvements for a nanoparticle separation channel after testing with a prototype  
Used Jupyter Notebook to fit polarization-analyzed small-angle neutron-scattering data from 16 conditions  
Analyzed and presented findings on behavior and interactions of manganese ferrite nanoparticles

**Technical languages:** Python, React & AngularJS, LaTeX, Git, Java, C++, CSS/HTML, Bash, Shell, Swift

## PUBLICATIONS

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**UNAKITE: Scaffolding Developers' Decision-Making Using the Web** Best Paper Honorary Mention  
**An Exploratory Study of Web Foraging to Understand and Support Programming Decisions**  
**Correlated spin canting in ordered core-shell  $\text{Fe}_3\text{O}_4/\text{Mn}_x\text{Fe}_{3-x}\text{O}_4$  nanoparticle ... assemblies**  
**UNAKITE: Support Developers for Capturing and Persisting Design Rationales ...**

## ACTIVITIES & AWARDS

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**Teaching Assistant (office hour holder, grader, lab helper, dedicated tutor)** Spring 2017 - current  
Courses taught: Algorithms, Data Structures, Advanced Chinese and Introductory CS (in Python)  
**Computer Science Majors Committee Member** Fall 2018 - current  
Organized department activities, updated committee websites, held weekly office hours  
**SOAR (Sophomore Opportunities & Academic Resources) Leader** Fall 2019 - current  
Recruit participants and plan for winter retreat to provide students with resources  
**Clare Boothe Luce Scholarship at Oberlin College** Fall 2018 - Spring 2019  
**Computing Research Association for Women GHC Research Scholarship** Fall 2018  
**Honorary Mention 2017 in ACM ICPC East Central NA Regional Contest** Fall 2017