

Charlotte Clark

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Education

Worcester Polytechnic Institute

Master of Science in Computer Science	2022 - 2023
Bachelor of Science in Computer Science	2019 - 2022

Experience

Draper Laboratories | *Member of Technical Staff II* Jun 2023 - Present

- Developing software tools to apply formal methods concepts to real world cybersecurity challenges

WPI | *Teaching Assistant* Aug 2022 - May 2023

- Grading projects, exams and homework assignments
- CS2303: Systems Programming Concepts, CS4513: Distributed Computing Systems

SimpliSafe | *Software Engineer Intern* May 2022 - Aug 2022

- Designed and implemented a new microservice to deliver alerts to users
- Deployed to AWS ECS with Terraform

First Republic Bank | *Software Engineer Intern* Jun 2021 - Aug 2021

- Created a dashboard to visualize company-wide compliance with internal SDLC guidelines using custom React components to effectively display complex data
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Tools & Languages

- **Tools:** Docker, Elasticsearch, SQL, Coq, KeYmaera X Theorem Prover, TLA+
 - **Languages:** Typescript, C, Racket, Python, Java
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Publications

[1] Clark, Charlotte and Bohrer, Rose. Homotopy Type Theory for Sewn Quilts. *Proceedings of the 11th International Workshop on Functional Art, Music, Modelling, and Design*. ACM, 2023 (In Press)

Awards and Honors

WPI | *Provost's Computer Science MQP Award*

- Creating the Pwnable Claw Machine: designed and constructed a "pwnable" claw machine to improve accessibility of cybersecurity at WPI

