## **Samuel Mercier**

https://sam.mrcr.us sam [at] mrcr [dot] us Citizenship: United States Citizen Github: https://github.com/samontea

## **Education**

Purdue University (College of Science B.S. in Mathematics with Departmental Bachelors Thesis: An Introduction to F	Honors. Minors	s: Computer Science, Philosophy	May 2020 3.7/4.0
Awards & Honors:		atudant in the Dent of Mathem	ti)
o E. V. Schenkman Award (Awarded to	_	•	,
o Outstanding Senior in Mathematics (A		•	,
o Purdue Presidential Scholarship		o Purdue Marquis Scholarship	2015–2020
o Dean's List		o Senior Achievement Award (N	. , , ,
o T. Arai Scholarship	Spring 2019	o M. Daniels Early Graduate So	moiarship <i>Fall 2015</i>
Experience			
Work Experience – Software Engi	_		
Software Engineer 2 MongoDB (New York And	,		Aug. 2020 (Expected)
Software Engineer Intern NASA JPL (	` ,		May 2020–Present
Developing "Next-Generation Modeling a (e.g. Europa Clipper).	and Simulation S	software" in Java in support of J	PL engineering missions
Software Engineer Intern Affirm (San	Francisco, CA)	<ul> <li>Risk Engineering Team</li> </ul>	Sept. 2019-Nov. 2019
Expanded the functionality of the under	,		•
integration testing of loan decisioning.	•		
Software Engineer Intern MongoDB (	New York) – Qi	uery Team <i>May 2018–Aug. 201</i>	8 & May 2019–Aug. 2019
Implemented a new index type which car queries by 28x according to performance <i>Technologies:</i> C++, Python (for testing <b>Software Engineer Intern</b> MongoDB (	e tests. Recover ;), & JavaScript	ed technical debt by rearchitecti (for testing).	
Researched and implemented time serie Created automated anomaly detection a Web Dev. Intern for NASA Systems	lerts. <i>Technolog</i>	gies: Java & MongoDB.	their "DaaS" platform  Jan. 2017–May 2017
Developed requirement management sof Software Engineer Intern (Fullstack)		=	solated state.  June 2016–Aug. 2016
Led development on a client onboarding	application.		
Work Experience – Teaching			
Undergraduate Teaching Assistant P			2015-2020
Prepared course materials (labs, homewo	=		ses:
o CS 240 (Programming in C)	Spring 2020	o CS 252 (Systems Programmi	ng) Spring 2019
o MA 162 (Analytic Geom. and Calculus	II) Spring 2019	o CS 252 (Systems Programmi	ng) Fall 2018
o MA 161 (Analytic Geom. and Calculus	s I) Fall 2018	o CS 252 (Systems Programmi	ng) Spring 2018
o CS 240 (Programming in C)	Fall 2016	o CS 240 (Programming in C)	Spring 2015
	Purdue Univers	sity	Sept. 2015-Dec. 2015
Computer Science Help Room Tutor		-	
Computer Science Help Room Tutor Ran a help room for CS 180 (Object Ori	iented Program	ming) & C3 240 (Programming	in C).
	_	-, , , -	•
Ran a help room for CS 180 (Object Ori			, 
Ran a help room for CS 180 (Object Ori Volunteer Experience			•
Ran a help room for CS 180 (Object Ori Volunteer Experience BoilerMake Hackathon Executive Bo			Jan. 2016–Oct. 2018