Samuel Mercier

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Citizenship: United States Citizen Github: https://github.com/samontea

Education

Purdue University (College of Science	- /	May 2020
Bachelors Thesis : An Introduction to	Honors. Minors: Computer Science, Philosophy.	
Awards & Honors:	Homotopy Commits	
	the best algebra student in the Dent, of Mathematic	cs) Spring 2020
· ·	the best algebra student in the Dept. of Mathematics	,
- ,	Awarded to one senior in the Dept. of Mathematics)	Spring 2019
o Purdue Presidential Scholarship	2015–2020 o Purdue Marquis Scholarship	2015–2020
o Dean's List	2015–2020 o Senior Achievement Award (Math	. , , .
o T. Arai Scholarship	Spring 2019 o M. Daniels Early Graduate Schola	rship Fall 2015
Experience		
	ineering	
Software Engineer 2 MongoDB (New	York) – Query Team	Aug. 2020 (Expected)
Software Engineer Intern NASA JPL	(Pasadena, CA) – Modeling & Verification	May 2020–Present
-	and Simulation Software" in Java in support of JPL e	ngineering missions
(e.g. Europa Clipper).	Francisco CA) Diel Francisco Terro	
- ,	,	ept. 2019–Nov. 2019
integration testing of loan decisioning.	writing microservice. Made loan decision tasks async <i>Technologies:</i> Python, SQL, & Docker. (New York) – Query Team <i>May 2018–Aug. 2018 & I</i>	·
,	n index all fields of all documents in a given collection	
queries by 28x according to performance <i>Technologies:</i> C++, Python (for testing	e tests. Recovered technical debt by rearchitecting pg), & JavaScript (for testing).	rojection execution
Software Engineer Intern MongoDB (·	May 2017–Aug. 2017
Created automated anomaly detection a	es analysis techniques for anomaly detection for thei alerts. <i>Technologies:</i> Java & MongoDB. s Engineering NASA JSC (Houston, TX)	r DaaS platform Jan. 2017–May 2017
	ftware used throughout NASA. Added routing. Isolat	-
Software Engineer Intern (Fullstack)		lune 2016–Aug. 2016
Led development on a client onboarding	g application.	
Work Experience – Teaching		
Undergraduate Teaching Assistant P		2015-2020
Prepared course materials (labs, homew	ork, exams, etc.) and taught the following courses:	
o CS 240 (Programming in C)	Spring 2020 o CS 252 (Systems Programming)	Spring 2019
o MA 162 (Analytic Geom. and Calculus	II) Spring 2019 o CS 252 (Systems Programming)	Fall 2018
o MA 161 (Analytic Geom. and Calculus	s I) Fall 2018 o CS 252 (Systems Programming)	Spring 2018
o CS 240 (Programming in C)	Fall 2016 o CS 240 (Programming in C)	Spring 2015
Computer Science Help Room Tutor	r Purdue University S	ept. 2015–Dec. 2015
Ran a help room for CS 180 (Object Or	riented Programming) & CS 240 (Programming in C).
Volunteer Experience		
BoilerMake Hackathon Executive Bo	oard (Dev & User Experience Team)	Jan. 2016–Oct. 2018
Purdue FIRST Programs (IT Team)	A	Aug. 2015–Dec. 2016
IT Director		May 2016–Dec. 2016