Samuel Lowe

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Education

Northeastern University – College of Science	Boston, MA
Candidate for Master of Science in Applied Mathematics	Anticipated September 2023
Northeastern University – Khoury College of Computer Sciences	Boston, MA
Bachelor of Science in Computer Science and Mathematics	Jan. 2020 – June 2023
• Graduate Coursework: Abstract Algebra, Number Theory in Function Fields	
 Undergraduate Coursework: Complex Analysis, Number Theory, Directed Stud Differential Equations Activities & Societies: Math Club (President), MathEMA (eBoard), Game Dev 	y (on Elliptic Curves), Partial Club, NUPride
TECHNICAL SKILLS	
Languages: Python, C#, Java, C/C++, TypeScript Technologies: Git, Django, Bash, Docker, Kubernetes, Linux, Windows, Lean Prover, M	IonoGame, LaTeX
EXPERIENCE	
Software Engineering Co-op	Boston, MA
BitSight Technologies	$Jan. \ 2022 - Aug. \ 2022$
• Designed and prototyped Golang microservice to parallelize data processing	tabaga
• Worked with SQL, Fython, and Rubernetes to add reatures to back-end Django dat	abase D (A
Logic and Computation Teaching Assistant	Boston, MA
• Taught students how to do proofs and formalize them using Lean (the Microsoft pr	Sept. 2021 – December 2021
 Led labs and discussed topics on the Peano axioms, undecidability, and formal verification of the result of the result	ication
Back-End Engineer	Boston, MA (Remote)
Generate Product Development at Northeastern University	Jan. 2021 – May 2021
 Created a wearable clicker to allow runners to alert police and trusted contacts if th Worked with a team of two other back-end engineers to integrate Google Maps, Rap into our Django back-end 	ey feel unsafe pidSOS, Bluetooth, and MySQL
• Led several weekly standups to discuss team progress, priorities, and resolve issues	
Projects	
 Elliptic Curves and the Birch and Swinnerton-Dyer Conjecture Studied elliptic curves and the Birch and Swinnerton-Dyer conjecture with faculty a part of a capstone course 	January 2023 – May 2023 advisor <u>Prof. Evan Dummit</u> as
• Wrote a 20-page report on elliptic curves covering the group structure of points, the theorem, endomorphisms, complex multiplication, <i>L</i> -functions, and the Birch and S	Nagell-Lutz theorem, Mazur's winnerton-Dyer Conjecture
PaperScraper Python, Flask, Reddit API, Git	August 2016 – Present
• Developed and maintain a command-line program (and soon-to-be website) to allow wallpapers from Reddit	v users to easily download
• Integrated multiple webscraping techniques and APIs to retrieve, parse, and downlo	ad images and data
nprcore.me Vue.js, JavaScript, Spotify API, Git	January 2021
 Pair-programmed a website to analyze users' music choices and compare them with Designed an algorithm to calculate a user score, compare it against population data Recognized by official NPR Twitter accounts including <u>All Things Considered</u> and <u>I</u> 	NPR's recommended songs , and rate users' music tastes <u>NPR Interns</u>

INTERESTS

Game Design and Development, Theoretical Mathematics, Teaching, Film, Reading