Matthew Gregoire

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EDUCATION

UNC CHAPEL HILL

PH.D. IN COMPUTER SCIENCE
Dec 2023 - Present
M.S. IN COMPUTER SCIENCE
Dec 2023
B.S. IN COMPUTER SCIENCE
B.S. IN MATHEMATICS
May 2021
Cum. GPA: 3.98 / 4.0
Dean's List (All semesters)

NORTH CAROLINA SCHOOL OF SCIENCE AND MATH

May 2017 | Durham, NC
Cum. GPA: 5.54 / 4.0

LINKS

Website
GitHub: MatthewGregoire42
LinkedIn: MatthewGregoire

COURSEWORK

GRADUATE

Logical Foundations
Cryptography
Computer Security
Privacy Enhancing Technologies
Algorithms

UNDERGRADUATE

Software Engineering
Quantum Computing
Operating Systems
CS Education Research

SKILLS

PROGRAMMING

Languages:
Python • Rust • Java • C • C++
TypeScript • JavaScript
Verilog • MATLAB
Tools:
LaTeX • Bash • Jupyter • Git
SQL • MongoDB • ReactJS
Firebase • Kubernetes • Coq
numpy • matplotlib • qiskit

OTHER

Play Chess and Go casually.
Can solve a Rubik's cube in under fifteen seconds.

EXPERIENCE

GRADUATE TECHNICAL INTERN | CISCO

May 2022 - August 2022
Worked on a software development team in an industry setting to transition a legacy system to a new platform.

- Implemented, tested, and documented changes to the codebase
- Documented a legacy API interface
- Saw agile software engineering from an industry perspective

TEACHING ASSISTANT | UNC CS DEPARTMENT

Fall 2018 – Spring 2021, Fall 2023
Assisted students in four undergraduate courses: intro programming, discrete structures, computer organization, and cryptography.

- Worked to design the syllabus and electronics labs for Computer Organization
- Wrote and graded questions for quizzes and final exams
- Helped students understand concepts and assignments in office hours

PUBLICATIONS

Gregoire, M., Pierce, M., & Eskandarian, S. (2025). Onion Franking: Abuse Reports for Mix-Based Private Messaging. Network and Distributed Systems Security, 2025.

Gregoire, M., Thomas, R., & Eskandarian, S. (2024). CheckOut: User-Controlled Anonymization for Customer Loyalty Programs. Proceedings on Privacy Enhancing Technologies Symposium, 2024(3) (pp. 224–245).

Ryan, K., Gregoire, M., & Sturton, C. (2023, October). SEIF: Augmented Symbolic Execution for Information Flow in Hardware Designs. In Proceedings of the 12th International Workshop on Hardware and Architectural Support for Security and Privacy (pp. 1-9).

Deutschbein, C., Meza, A., Restuccia, F., Gregoire, M., Kastner, R., & Sturton, C. (2022). Toward hardware security property generation at scale. IEEE Security & Privacy, 20(3), 43-51.

PERSONAL PROJECTS

8-BIT COMPUTER

Summer 2019
Built a fully programmable 8-bit computer using integrated circuits, wires, and breadboards, and designed a corresponding assembly language. Based on tutorials by Ben Eater. Full project description on GitHub.

RECOGNITIONS

2020 Completion of Qiskit Global Summer School in Quantum Computing
2019 Best Use of BlockStack API, PackHacks Hackathon
2017 NC State Champion, David Ricardo Economics Challenge
2017 Bowman-Brockman Scholar, NCSSM
2015 First Place, FIRST Robotics North Carolina Regional