IAN MCQUOID

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EXPERIENCE

Research Intern
Cloudflare

📅 June 2021 — September 2021 ⚲ Remote, USA

Perform cryptographic research on authentication protocols and work on existing javascript libraries for cryptographic protocols. Work in an agile environment with git for version control.

Software Engineering Intern
Mentor Graphics

📅 June 2019 — December 2019 ⚲ Wilsonville, OR

Implement performance analysis paradigms and develop tools for analyzing performance and JIT code using VTune, Collect, and PAPI. Decrease the runtime of an internal tool by a factor of 1000. Work on a large codebase using perforce for version control.

Software Engineering Intern
Digimarc Corporation

📅 April 2018 — September 2018 ⚲ Beaverton, OR

Follow object oriented and functional software engineering paradigms in Python and C++. Debug code on Linux, OSX, and Windows platforms. Work in an agile environment with a team of six people.

PUBLICATIONS

👥 Conference Proceedings

- McQuoid, Ian, Mike Rosulek, and Lawrence Roy (2021). "Batching Base Oblivious Transfers". In: *Advances in Cryptology – ASIACRYPT 2021*. Springer.
- – (2020). "Minimal Symmetric PAKE and 1-out-of-N OT from Programmable-Once Public Functions". In: *ACM CCS 2020: 27th Conference on Computer and Communications Security*. ACM Press, pp. 425–442.
- McQuoid, Ian, Trevor Swope, and Mike Rosulek (2019). "Characterizing Collision and Second-Preimage Resistance in Linicrypt". In: *TCC 2019: 17th Theory of Cryptography Conference*. Springer, pp. 451–470.

TECHNICAL SKILLS

Computer Security   Cryptography   Mathematics

Functional Programming   Object Oriented Programming

Agile/Scrum   Git

MY LIFE PHILOSOPHY

"Learning is a process, not a goal. Everything and everyone is a source of knowledge."

AWARDS

🏆 **Eagle Scout**
My project was in trail reconstruction on Mount McLoughlin

STRENGTHS

Quick Learner   Eye for detail

Communicator

LANGUAGES

C   C++   Python

EDUCATION

Ph.D. in Computer Science - Cryptography
Oregon State University

📅 December 2019 – Ongoing

GPA: 4.00

B.Sc. in Computer Science
Oregon State University

📅 June 2019

GPA: 3.99

B.Sc. in Mathematics
Oregon State University

📅 June 2019

Overall GPA: 3.89