

Caleb Laarz Geiger

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Citizenship: USA

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🌐: <https://calebgeiger.org>

📖: Tehachapi, CA (Open to relocation)

TECHNICAL SKILLS

- **Fluent in:** Python, C++
- **Prior projects using:** Rust, keras, numpy, pandas, pytorch, sage, scikit-learn, tensor-flow

SELECT PERSONAL PROJECTS

- **HanabiAI:** A machine-learning project to teach a neural-network to play the card game *Hanabi*; implemented in Python using keras. See <https://github.com/ElodinLaarz/HanabiAI>.
- **KevinCoin:** An implementation of a cryptocurrency from first-principles; implemented in C++ and Rust. See <https://github.com/ElodinLaarz/KevinCoin>
- **EllipticCurveEncryptor:** A program that when prompted by a seed generates a secure public-private key combination that can be used to encrypt/decrypt data.

EXPERIENCE

- **University of Washington** Seattle, WA
Researcher in Number Theory Sep. 2015 — Jun. 2020
 - **Overview:** Did some stuff with non-maximal orders in imaginary quadratic extensions of \mathbb{Q} .
 - **Technical skills used:** Extensive use of the Python library sage, which is aimed at mathematicians who are using python.
 - **Link to thesis:** <http://calebgeiger.org/Thesis/thesis.pdf>
- **Google Hash Code** Seattle, WA
Google Hash Code Feb. 2020 — Feb. 2021
 - **Overview:** Solving Big-Data problems or whatever.
 - **Technical skills used:** Python programming, collaborative work.
 - **Link to thesis:** <http://calebgeiger.org/Thesis/thesis.pdf>
- **Google Code Jam** Seattle, WA
Google Code Jam April. 2019 — April. 2021
 - **Overview:** Did some stuff here. Pass the qualification round, participated in round 1.
 - **Technical skills used:** Python programming.
 - **Link to thesis:** <http://calebgeiger.org/Thesis/thesis.pdf>

EDUCATION

- **University of Washington, Seattle** Seattle, WA
M.S. in Mathematics specializing in Number Theory Sep. 2015 — Jun. 2020
- **University of California, Irvine** Irvine, CA
Bachelors in Mathematics Sep. 2013 — Jun. 2015