

# Caleb Laarz Geiger

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Citizenship: USA

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🌐: <https://calebgeiger.org>

📖: Tehachapi, CA (Open to relocation)

## TECHNICAL SKILLS

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

## SELECT PERSONAL PROJECTS

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- **HanabiAI:** A machine-learning project to teach a neural-network to play the card game *Hanabi*. 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>

## EXPERIENCE

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- **University of Washington** Seattle, WA  
*Researcher in Computational Number Theory* Sep. 2014 — Jun. 2019
  - **Overview:** Thesis research centered around creating and implementing algorithms in number theory. Created polynomial-time algorithms for computing invariants where existing methods were computationally infeasible or non-existent.
  - **Technical skills used:** Implemented algorithms using thousands of lines of Python. Invariants were computed in parallel on a 24-core server and stored in a PostgreSQL database.
  - **Link to thesis:** <https://kevinlui.org/pages/thesis>

## EDUCATION

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- **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