

Nicholas Baron

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<https://github.com/Nicholas-Baron> | <https://nicholas-baron.github.io>

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Education

University of California, Irvine

Expected Completion May 2028

Doctorate in Computer Science

California State Polytechnic University, Pomona

Completed December 2022

Master's of Science in Computer Science (GPA: 3.97)

Thesis: *Observer Rules for Box-Split Grammars*

California State Polytechnic University, Pomona

Completed December 2020

Bachelor of Science in Computer Science (GPA: 3.86)

Conference Papers

Baron, N., Eger, M. "Observer Rules for Box-Split Grammars" *AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment (AIIDE-23)* Salt Lake City, United States.

Work Experience

Compiler Intern, AMD, Santa Clara, CA

June—September 2025

- Explored performance issues in AI accelerators
- Contributed to LLVM AMDGPU backend

Compiler Intern, Xilinx/AMD, CA

May—August 2022

- Developed and tested libXAIE to AirBin pipeline
- Contribute AirBin lowering to MLIR-AIE

Compiler Intern, Wind River Systems, CA

June—December 2021

- Shipped an updated version of Rust for VxWorks
- Ported an open-source implementation of UBSan for the Diab7 compiler

Software Engineering Intern, Murcal, Inc., Palmdale, CA

May—August 2019

- Developed and documented a framework that will be used on future embedded systems
- Created and designed multi-threaded features from feedback given by team members
- Worked in a semi-independent development role to iterate on the project

Extracurricular Projects

little-lang

Fall 2019

- Used Flex, Bison, and LLVM to assist in generating parser code and assembly
- Researched compiler concepts related to the project, improving the code from said research
- Improved project specification after project had begun, adding comprehensibility
- Documented accepted language with example code and used examples for testing

Technical Skills

• C++	• Python	• Build Systems (CMake)
• Rust	• Linux	• git / GitHub, Bitbucket
• Haskell	• Shell Scripting	• L ^A T _E X
• Java	• LLVM	• Assembly