

Nicholas Baron

US and EU Citizen | +1 (949) 237-2484 | nicholas.baron.ten@gmail.com
<https://github.com/Nicholas-Baron> | <https://nicholas-baron.github.io>
<https://www.linkedin.com/in/Nicholas-Baron-Ten>

Education

University of California, Irvine Doctorate in Computer Science	Expected Completion May 2028
California State Polytechnic University, Pomona Master's of Science in Computer Science (GPA: 3.97) Thesis: <i>Observer Rules for Box-Split Grammars</i>	Completed December 2022
California State Polytechnic University, Pomona Bachelor of Science in Computer Science (GPA: 3.86)	Completed December 2020

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 • Explored performance issues in AI accelerators • Contributed to LLVM AMDGPU backend	June—September 2025
Compiler Intern , Xilinx/AMD, CA • Developed and tested libXAIE to AirBin pipeline • Contribute AirBin lowering to MLIR-AIE	May—August 2022
Compiler Intern , Wind River Systems, CA • Shipped an updated version of Rust for VxWorks • Ported an open-source implementation of UbSan for the Diab7 compiler	June—December 2021
Software Engineering Intern , Murcal, Inc., Palmdale, CA • 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	May—August 2019

Extracurricular Projects

little-lang • 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	Fall 2019
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Technical Skills

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