

Nicholas Baron

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Education

University of California, Irvine Doctorate in Computer Science Advisor: Michael Franz	Expected Completion 06/28
California State Polytechnic University, Pomona Master of Science in Computer Science Thesis: <i>Observer Rules for Box-Split Grammars</i>	Completed 12/22
California State Polytechnic University, Pomona Bachelor of Science in Computer Science	Completed 12/20

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 , Oracle, Vienna, AT • Repaired write sinking to correctly extract writes from inner loops • Implemented tiered profiling, improving performance by 3%	06/26—12/26
Compiler Intern , AMD, Santa Clara, CA • Explored pipeline performance issues in AI accelerators • Contributed to LLVM AMDGPU backend	06/25—09/25
Compiler Intern , Xilinx/AMD, CA • Developed and tested libXAIE to AirBin pipeline • Developed AirBin lowering to MLIR-AIE	05/22—08/22
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	06/21—12/21

Teaching Experience

Project in Compilers and Interpreters	Winter 2026
Programming in C++	Fall 2025, Fall 2024
Data Structures (C++)	Spring 2025, Summer 2024
Systems Programming (C)	Winter 2025
Intermediate Python Programming	Winter 2024, Fall 2023

Technical Skills

Languages: C, C++, Java, Python, Rust, Haskell
Compiler Frameworks: LLVM, MLIR, GraalVM
Tools: Linux, git, L^AT_EX, Shell, CMake