

Nicholas Baron

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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 Thesis: <i>Observer Rules for Box-Split Grammars</i>	Completed December 2022
California State Polytechnic University, Pomona Bachelor of Science in Computer Science (GPA: 3.8)	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 , Xilinx/AMD, CA <ul style="list-style-type: none">Developed and tested libXAIE to AirBin pipelineContribute AirBin lowering to MLIR-AIE	May—August 2022
Compiler Intern , Wind River Systems, CA <ul style="list-style-type: none">Shipped an updated version of Rust for VxWorksPorted an open-source implementation of UbSan for the Diab7 compiler	June—December 2021
Software Engineering Intern , Murcal, Inc., Palmdale, CA <ul style="list-style-type: none">Developed and documented a framework that will be used on future embedded systemsCreated and designed multi-threaded features from feedback given by team membersWorked in a semi-independent development role to iterate on the project	May—August 2019

Extracurricular Projects

little-lang <ul style="list-style-type: none">Used third-party tools to assist in building and generating code for the projectResearched compiler concepts related to the project, improving the code from said researchImproved project specification after project had begun, adding comprehensibilityDocumented accepted language with example code and used examples for testing	Fall 2019
Prime Finder 2 <ul style="list-style-type: none">Developed models to better understand parallel processing conceptsImplemented a safe multithreading model for scalabilityOptimized multithreaded code to improve perceived performance	Spring 2019

Technical Skills

• C++	• Python	• git / GitHub, Bitbucket
• Rust	• Linux	• L ^A T _E X
• Haskell	• Shell Scripting	• Assembly
• Java	• make, CMake	