Nicholas Baron

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	Expected Completion May 2028

Doctorate in Computer Science

California State Polytechnic University, Pomona	Completed December 2022

Master's of Science in Computer Science
Thesis: *Observer Rules for Box-Split Grammars*

California State Polytechnic University, Pomona	Completed December 2020

Bachelor of Science in Computer Science (GPA: 3.8)

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	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 third-party tools to assist in building and generating code for the project
- 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

Prime_Finder_2	Spring 2019

- Developed models to better understand parallel processing concepts
- Implemented a safe multithreading model for scalability
- Optimized multithreaded code to improve perceived performance

Technical Skills

• C++	• Python	• git / GitHub, Bitbucket
• Rust	• Linux	• LaTeX
• Haskell	• Shell Scripting	• Assembly
• Java	• make, CMake	