JAN-PAUL VINCENT RAMOS-DÁVILA

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EDUCATION

Cornell University   2021 - 2025
Bachelor of Arts in Mathematics, Computer Science, Philosophy

EXPERIENCE

Software Verification Researcher   May 2022 - Present
Carnegie Mellon University - Institute for Software Research
Research Experience for Undergraduates in Programming Languages and Software Verification.
In Progress

Programming Languages Researcher   November 2021 - Present
Cornell University - Bowers College of Computing and Information Science
Member of the Computer Architecture & Programming Abstractions research group on tools
for the Calyx compiler infrastructure. An infrastructure for building compilers that
generate hardware accelerators.

Software Engineering Trainee   July 2021 - August 2021
Google Computer Science Summer Institute
Studied programming fundamentals for web development in JavaScript directly from Google engineers
and got an inside look on Google employee tools used for web development.
Developed a peer-to-peer instant messaging architecture and user interface.

PUBLICATIONS & PROJECTS

RNAfoldml: An OCaml package for predicting RNA secondary structure
Inle Bush, **Jan-Paul Ramos**, Songyu Ye
Domain Specific Language for differential equations   ISEF '21
Benjamin Philippe Applegate, **Jan-Paul Ramos**
Pythagorean Triples in Pascal's Triangle: A computational and algebraic approach   ISEF '20
Jan-Paul Ramos

HONORS & AWARDS

PLMW @ PLDI Travel Scholarship   2022
SIGPLAN Conference on Programming Language Design and Implementation
Regeneron International Science and Engineering Fair Finalist   2020/2021
Grand Prize Regional Math Fair, Puerto Rico

RELEVANT COURSEWORK

Graduate Level Advanced Programming Languages   Object Oriented Design and Data Structures
Graduate Level Category Theory for Comp Sci   Discrete Structures
Data Structures and Functional Programming   Computer System Organization

TECHNICAL SKILLS

Languages: OCaml, Coq, Python, Java, JavaScript, Haskell, HTML/CSS, Rust, C++
Tools: Unix, VSCode, Git, IntelliJ IDEA, Docket, Jekyll, PEGjs