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
Research Experience for Undergraduates in Programming Languages and Software Verification.
In Progress

Programming Languages Researcher November 2021 - Present
Cornell University
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 Student 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.

PROJECTS — PUBLICATIONS

ISEF '21 Domain Specific Language for differential equations
Benjamin Philippe Applegate, **Jan-Paul Ramos**

ISEF '20 Pythagorean Triples in Pascal's Triangle: A computational and algebraic approach
Jan-Paul Ramos

HONORS & AWARDS

Most Outstanding Exhibit in Science, Technology, Engineering and Mathematics 2021
Yale School of Engineering & Applied Science — ISEF '21

Mu Alpha Theta Award 2020/2021
National High School and Two-Year College Mathematics Honor Society — ISEF '20/'21

Regeneron International Science and Engineering Fair Finalist 2020/2021
ISEF & Math Department of Education Puerto Rico — ISEF '20/'21

Office Naval Research Science Award 2020
United States Department of the Navy — ISEF '20

RELEVANT COURSEWORK

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

TECHNICAL SKILLS

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