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.

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	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