

# 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

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, Python, Java, JavaScript, Haskell, HTML/CSS, Rust, C++

**Tools:** Unix, VSCode, Git, IntelliJ IDEA, Docket, Jekyll, PEGjs