

JAN-PAUL VINCENT RAMOS-DÁVILA

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EDUCATION

Cornell University

2021 - 2025

Λ Bachelor of Arts in Computer Science & Philosophy
Λ Competitive Programming Club & ICPC

EXPERIENCE

Software Verification Researcher

05/2022 - Present

Λ Carnegie Mellon University, REUSE Pittsburgh, PA & Virtual
Λ Advised by Dr. Jonathan Aldrich & Dr. Joshua Sunshine on Gradual Verification.
Λ Developed a property based testing tool for evaluating soundness of the Gradual C_0 .

Programming Languages Researcher

10/2021 - Present

Λ Cornell University, CAPRA Ithaca, NY
Λ Advised by Dr. Adrian Sampson in the Calyx compiler infrastructure team.
Λ Implemented the Graphicionado graph analytics accelerator in Calyx.
Λ Worked on a symbolic execution tool to verify Calyx code.

Software Engineering Student

07/2021 - 08/2021

Λ Google Computer Science Summer Institute Virtual
Λ Learned programming fundamentals in JavaScript directly from Google engineers.
Λ Got an inside look at Google employee tools used for web development.
Λ Developed a peer-to-peer instant messaging system with a web interface.

PUBLICATIONS

Evaluating Soundness of a Gradual Verifier with Property Based Testing
Λ Jan-Paul Ramos-Dávila

[SRC] POPL '23
Boston, MA

HONORS

Attendee, Programming Languages Mentoring Workshop Travel Scholarship

2022

Λ SIGPLAN Conference on Programming Language Design and Implementation

San Diego, CA

Finalist, Regeneron International Science and Engineering Fair

2020 & 2021

Λ Puerto Rico Regional Mathematics Fair—High School

Virtual

RELEVANT COURSEWORK

CS 6110 Advanced Programming Languages

CS 6156 Runtime Verification

CS 6117 Category Theory for Comp Sci

PHIL 3340 Modal Logic

CS 6766 Reasoning about Uncertainty

TECHNICAL SKILLS

Languages: OCaml, Python, Java, JavaScript, Haskell, Scala, Rust, C, Coq, Calyx, Gradual C_0 , English, Spanish

Tools: Unix, VSCode, Git, IntelliJ IDEA, Docker, Jekyll, PEGjs, Neovim