JAN-PAUL VINCENT RAMOS-DÁVILA

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EDUCATION

Cornell University 2021 - Present
λ Bachelor of Arts in Computer Science & Philosophy

EXPERIENCE

Research Intern 05/2022 - Present
λ Carnegie Mellon University Pittsburgh, PA & Virtual
Advised by Dr. Jonathan Aldrich & Dr. Joshua Sunshine on Gradual Verification through the REUSE internship. Developed an empirical soundness evaluation tool for the gradual verifier.

Undergraduate Researcher 10/2021 - Present
λ Cornell University Ithaca, NY
Advised by Dr. Adrian Sampson in the Computer Architecture & Programming Abstractions research group on tools for the Calyx compiler infrastructure. Designed tools for compiling high-level languages to hardware designs.

Software Engineering Student 07/2021 - 08/2021
λ Google Computer Science Summer Institute Virtual
Studied programming fundamentals for web development in JavaScript directly from Google engineers and got an inside look at Google employee tools used for web development. Developed a peer-to-peer instant messaging system with a web interface.

PUBLICATIONS

Evaluating Soundness of a Gradual Verifier with Property Based Testing [SRC] POPL '23
λ **Jan-Paul Ramos-Dávila** 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 6117 Category Theory for Comp Sci
CS 6766 Reasoning about Uncertainty
CS 6156 Runtime Verification
PHIL 3340 Modal Logic

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