Jan-Paul Vincent Ramos-Dávila

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I am a second-year undergraduate at Cornell University studying computer science and philosophy. My research involves designing and implementing tools for program verification, both skills I believe necessarily borrow from software engineering and analytical philosophy.

EDUCATION

Cornell University — 2021 - 2025
Bachelor of Arts in Computer Science & Philosophy
λ Activities: Competitive Programming Club (ICPC), Cornell Cinema Volunteer

EXPERIENCE

REUSE, Carnegie Mellon University — 05/2022 - Present
Research Intern
λ Advised by Dr. Jonathan Aldrich & Dr. Joshua Sunshine on Gradual Verification.
λ Developed a property based testing tool for evaluating soundness of Gradual C_0.

CAPRA, Cornell University — 10/2021 - Present
Undergraduate Research Assistant
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.

CSSI, Google — 07/2021 - 08/2021
Software Engineering Student
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

POPL '23 (SRC)	**Evaluating Soundness of a Gradual Verifier with Property Based Testing** Jan-Paul Ramos-Dávila

HONORS

Travel Scholarship, ACM SIGPLAN Conference PLDI	2022
Finalist, Mathematics, Regeneron International Science and Engineering Fair	2020 & 2021

RELEVANT COURSEWORK

CS 6110 Advanced Programming Languages   **CS 4120** Introduction to Compilers
CS 6117 Category Theory for Comp Sci   **PHIL 3340** Modal Logic
CS 6156 Runtime Verification

TECHNICAL SKILLS

Languages: *OCaml, *Python, *Scala, *Rust, Java, JavaScript, Haskell, C, Coq, *English, *Spanish, Italian
Tools: *Unix, *VSCode, *Git, IntelliJ IDEA, Docker, Jekyll, PEGjs, Neovim

* Most proficient