

# 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 building tools for incremental program verification and optimization.

## Education

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<b>Cornell University</b> Bachelor of Arts in Computer Science & Philosophy λ Activities: Competitive Programming Club (ICPC), Cornell Cinema Volunteer	2021 - 2025
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## Experience

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<b>REUSE, Carnegie Mellon University</b> 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 $C_0$ .	05/2022 - Present
<b>CAPRA, Cornell University</b> 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.	10/2021 - Present
<b>CSSI, Google</b> 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.	07/2021 - 08/2021

## Publications

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POPL '23 (SRC)	<b>Evaluating Soundness of a Gradual Verifier with Property Based Testing</b> ☞ Jan-Paul Ramos-Dávila
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## Honors

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

## Relevant Coursework

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

## Technical Skills

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**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