

Priya Srikumar

<https://github.com/priyasrikumar>

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(917) 596-9988

EDUCATION

Cornell University

B.S. in Computer Science; GPA: 3.21/4.00

Ithaca, NY

Expected May 2021

- *Relevant Coursework:* [Advanced Algorithms](#), [Advanced Compilers](#), [Advanced Programming Languages](#)

TEACHING

Programming Languages and Logics

Teaching Assistant for 150+ students

[Website](#)

Aug 2020 - Dec 2020

Discrete Structures

Teaching Assistant for 350+ students

[Wiki](#)

Aug 2018 - May 2019

RESEARCH

Cornell Department of Computer Science, Professor [Nate Foster's Lab](#)

Undergraduate Researcher

Tools: [P4](#), [OCaml](#), [Z3](#)

Sep 2019 - Present

- Work to develop a synthesis algorithm that analyzes network switch configurations and operations
- Optimize above algorithm to scale its asymptotic performance from linear to near-constant (!)
- Develop a [formerly deprecated Z3 serializer](#), expand its functionality, and improve its performance speed
- Expand expressivity and interoperability of project's domain-specific language and optimize Z3 formula generation

PAPERS

Avenir: Managing Data Plane Diversity via Control Plane Synthesis

[NSDI 2021](#)

Eric Campbell, William T. Hallahan, **Priya Srikumar**, Carmelo Cascone, Jed Liu, Vignesh Ramamurthy, Hossein Hojjat, Ruzica Piskac, Robert Soulé, Nate Foster

SKILLS

Programming and Software

- OCaml, Coq, Java, Python, C, C++, \LaTeX , G-Code, JavaScript, SQL
- Git, Unix/Linux, Z3, Autodesk Inventor, ROS

Languages

- *Fluent:* English, Tamil
- *Business Proficiency:* French, Korean

AWARDS

Principles of Programming Languages Travel Award

Jan 2020

- Selected for a week-long fully-funded trip to New Orleans to attend [POPL](#)
- Participated in the [Programming Languages Mentoring Workshop](#)

Meinig Family Cornell National Scholarship

Aug 2017 - May 2021

- Awarded to 2% of class for excellence in leadership
- Contribute 150 hours of leadership efforts on-campus per year

EXPERIENCE

Amazon.com Inc

Software Development Engineer Intern (virtual)

Seattle, WA

May 2020 - Aug 2020

- Built, tested, and deployed a new internal Java API impacting over a million monthly active users
- Presented new product feature using above API to over 300 engineers and managers