

Priya Srikumar

<https://github.com/priyasrikumar>

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(917) 596-9988

EDUCATION

Cornell University

Ph.D. in Computer Science

Ithaca, NY

Expected May 2026

Cornell University

B.S. in Computer Science

Ithaca, NY

May 2021

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

TEACHING

Introduction to Compilers

Teaching Assistant for 40+ students

[Website](#)

Jan 2022 - May 2022

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

Ithaca, NY

Sep 2019 - May 2021

- Worked to develop a synthesis algorithm that analyzes network switch configurations and operations
- Optimized above algorithm to scale its asymptotic performance from linear to near-constant (!)
- Developed a [formerly deprecated Z3 serializer](#), expand its functionality, and improve its performance speed

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++, L^AT_EX, G-Code, JavaScript, SQL
- Git, Unix/Linux, Z3, Autodesk Inventor, ROS

Languages

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

EXPERIENCE

Amazon Web Services, Inc.

Applied Scientist Intern (virtual)

Boston, MA

May 2021 - Sep 2021

- Wrote function contracts for a critical [s2n-tls](#) module and checked its memory safety using [CBMC](#)
- Developed internal documentation surrounding CBMC and function contracts to increase usability
- Delivered an experience report and presented a technical analysis to over 200 researchers and stakeholders

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