

# Chirag Bharadwaj

## Curriculum Vitae

309 Eddy Street  
Apartment 1D  
Ithaca, NY 14850

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DATE OF BIRTH: November 23, 1996.  
CITIZENSHIP: United States.

FLUSHING, NY, USA

## Education

### Princeton University

M.S.E. candidate in Computer Science  
Incoming student.

Princeton, NJ  
SEP 2017 – JUN 2019  
(expected)

### Cornell University

B.Sc. candidate in Computer Science, College of Engineering  
GPA: 3.41/4.00  
**Research interests:** programming languages, computer architecture

Ithaca, NY  
AUG 2014 – MAY 2017  
(early graduation)

## Research Experience

### Undergraduate Research Assistant

Department of Computer Science, Cornell University

FALL 2016 – PRESENT  
Advisor: Adrian Sampson

*Designing Hardware-Software Programming Languages for Approximate Computing*

- **CUDA:** Generating intermediate representations equivalent in behavior to complex integrated CPU/GPU programs.
- **LambdaLab** (*lab*): Interactive  $\lambda$ -calculus for student learning.

## Teaching Experience

### Undergraduate Teaching Assistant

Department of Computer Science, Cornell University

JAN 2015 – PRESENT

CS 3410: *Computer Systems*; Fall 2015, Spring 2016, Spring 2017

CS 3110: *Functional Programming*; Fall 2016 (head TA)

CS 2800: *Discrete Structures*; Spring 2015

Responsibilities:

*Weekly:* holding office hours, grading homeworks, leading lab sections, and answering student questions on Piazza

*Exams:* beta-testing, proctoring, and grading exams

*Other:* monitoring office hours, creating homework problems, and leading review sessions

## Projects

1. *Implementing Constructive Logics with OCaml*. Siva Somayyajula and Chirag Bharadwaj. Ithaca, NY. December 2016.

- Final paper and implementation of refinement logics proof assistant available.

## Employment

### Goldman Sachs

Role: Summer Analyst

Tasks: Co-developed administrative consoles for use in cloud platforms that protected against ad-hoc SQL in production;  
Created a RESTful API with a fully-integrated internal authentication system for the console back-end endpoints.

Jersey City, NJ  
JUN 2016 – AUG 2016

### Bank of Tokyo-Mitsubishi UFJ

Role: Technology Operations Intern

Tasks: Used Salesforce technology to integrate legacy systems and provide CRM software in the cloud;  
Created demo scripts and a sandbox environment for participation in SIT/UAT workflow.

New York, NY  
JUN 2015 – AUG 2015

## Honors and Awards

- Outstanding teaching assistant in Computer Science FALL 2015 – SPRING 2016
- Selected for best final project in CS 3110 FALL 2015
- Dean’s List in the College of Engineering FALL 2014, SPRING 2015, FALL 2016
- Outstanding Achievement in Chemistry FALL 2014

## Skills

### *Foreign languages:*

English (native), Kannada (bilingual), Spanish (professional)

### *Programming languages:*

Java, OCaml, C, Python

### *Assembly/Intermediate languages:*

CUDA, LLVM, ARM, MIPS, Verilog

### *Scripting languages:*

bash, awk, sed, ruby

### *Web:*

HTML5, CSS, less, vanillaJS, Bootstrap, Jekyll, Liquid, Dropwizard, Jackson, Jersey, JDBC, MySQL, Guava

### *Tools:*

L<sup>A</sup>T<sub>E</sub>X<sub>2</sub>ε, Sublime Text, Eclipse, git, vim, valgrind, gdb, lex/yacc, flex/bison, gcc, clang

## Interests

Applied math, linguistics, formal systems, typography, cartography, teaching and learning, piano, running, badminton

## References

Available upon request.