Chirag Bharadwaj

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Education

Cornell University, College of Engineering   **Ithaca, NY**
B.Sc. in Computer Science, GPA: 3.412/4.00   *August 2014 – May 2017*
Concentration: Programming Languages
Activities: Association of Computer Science Undergraduates, Institute of Electrical and Electronics Engineers, Cornell Piano Society, NY State Science Olympiad, Engineering Peer Advisor, Orientation Leader, Splash! at Cornell

Relevant Coursework:

- Electrical Circuits (ECE 2100)
- Digital Logic Design (ECE 2300)
- Embedded Systems (ECE 3140)
- Computer Systems (CS 3410)
- Operating Systems (CS 4410)
- Honors Data Structures (CS 2112)
- Discrete Structures (CS 2800)
- Functional Programming (CS 3110)
- Theory of Computation (CS 4810)
- Algorithm Analysis (CS 4820)
- Programming Languages* (CS 6110)
- Databases (CS 4320/4321)
- Applied Logic (CS 4860)
- Introduction to Nuclear Science (NSE 4130)
  *indicates a graduate-level course

Experience

Goldman Sachs   **Jersey City, NJ**
Summer Analyst, Technology Infrastructure   *June 2016 – August 2016*

- Worked with another intern to create an administrative console for use in cloud platforms
- Administrative console prevented ad-hoc MySQL queries from making data changes live in production by providing an interface
- Created a RESTful API for the back-end of the administrative console in Java using Dropwizard, Jackson, Jersey, JDBC, and Guava
- Created an authentication system and used a multithreaded connection pool with Guava's caches to query servers efficiently
- Wrote rigorous unit, performance, and integration tests for quality assurance to ensure ready-for-deployment status

Bank of Tokyo-Mitsubishi UFJ   **New York, NY**
Technology Operations Intern, IT Development   *June 2015 – August 2015*

- Used Salesforce.com technology to integrate systems and provide customer relationship-management (CRM) software in the cloud
- Participated in SIT/UAT workflow to help integrate cloud services, met with developers on a weekly basis
- Developed demo script and sandbox environment for Salesforce product demos to potential vendors (e.g. lawyers) in global market
- Co-led group of five other interns to create technical wireframe and document requirements for ASP.NET non-production release form

Department of Computer Science at Cornell University   **Ithaca, NY**
Undergraduate Teaching Assistant   *January 2015 – present*

- **CS 2800 (Consultant):** Spring 2015   **CS 3410 (TA):** Fall 2015, Spring 2016   **CS 3110 (Head TA):** Fall 2016
- Work 20 hours per week minimum: hold weekly office hours, lead a recitation section, participate in weekly grading sessions, create new assignments, proctor and grade exams, and answer questions on student discussion boards (top contributor on Piazza, all semesters)

Relevant Skills

Programming Languages: Java, OCaml, C, Python, MIPS32, ARMv7, Verilog, bash
Libraries and Frameworks: lex, yacc, flex, Bison, JavaFX, Dropwizard, Jackson, Jersey, JDBC, Guava
Web Development: HTML5, CSS3, VanillaJS, Bootstrap, jQuery, MySQL
Software and Tools: LaTeX2ε, git, vim, valgrind, gdb, Microsoft Office, Sublime Text, Eclipse, IntelliJ, Gradle, Maven
Languages Spoken: *English* (native), *Kannada* (bilingual), *Spanish* (professional), *Japanese* (rudimentary)

Awards and Accolades

- Outstanding teaching assistant in CS for 2015-2016
- Best final project for CS 3110 in Fall 2015
- **Dean's List**: Fall 2015, Spring 2015, Fall 2014
- Top 1% of graduating high school class
- Outstanding chemist 2014 (top 2/750)
- National Merit Finalist 2013, National AP Scholar 2012
- **SAT**: 2330 [2360] (730 [760] V, 800 M, 800 W, 12 E)

Personal Interests

- Programming language/compiler development
- Distributed systems and low-level computation
- Physical chemistry, applied math, and nuclear science
- Linguistics, formal systems, and language acquisition
- Cartography and highway/metro transit design
- Teaching, learning, and the theory of self/meta
- Playing the piano and composing classical music

Projects in the Works

- Compiler (source to x86) for *Ro*, a self-created functional language with language-level futures/threads
- *Fantaisie in D# Minor*, a classical-style musical composition for solo piano based on Scriabin/Chopin's free-form pieces