

# Jeffrey A. L. Snyder

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## Education

### UNIVERSITY OF WASHINGTON

Fall 2013-Present

**Ph.D.**, Computer Science. GPA 3.8/4.0. Research in HCI and Visualization. Currently RA with Prof. Jeff Heer. Coursework in Machine Learning, Visualization, Artificial Intelligence, and Distributed Systems. TA for Operating Systems with Ed Lazowska (Fall 2013) and Visualization with Jeff Heer (Spring 2015).

### PRINCETON UNIVERSITY

June, 2013

**A.B.**, Computer Science. Cum Laude. Certificate in Musical Performance (Jazz Piano). GPA 3.7/4.0. Coursework in Human Computer Interaction, Theory of Algorithms, Artificial Intelligence, Logic Design, Operating Systems, Science Policy, Computer Music, French, and Korean. Independent Research in Jazz Improvisation and ML (Andrew Appel); Digital Instrument Design (Rebecca Fiebrink); and Soccer Prediction and Simulation with ML (Robert Schapire).

### LEXINGTON HIGH SCHOOL Lexington, MA

June, 2008

Graduated Honor Roll in June 2008. SAT M.800 CR.730 W.790. GPA 3.8/4.0. AP Scholar with Distinction, 6 AP classes including Biology, Chemistry, and Physics. National Merit Scholarship Finalist.

## Work Experience

### GOOGLE

Summer 2014-Present

**Software Engineering Intern.** Redesigned the front-end of coLaboratory, an open-source system for collaborative data analysis built on top of IPython and Google APIs. Designed and developed a major new feature. Conducted two semi-structured interview studies of long-term users to identify limitations and areas for future development.

### PRINCETON UNIVERSITY COMPUTER SCIENCE Princeton, NJ

Summer 2012

**Undergraduate Researcher.** Worked with Prof. Vivek Pai to analyze over 20TB of log data from a long-running web proxy network. Developed new tools to detect malicious activity using unsupervised machine learning techniques.

## Campus and Leadership Activities

### UW CSE GRADUATE STUDENT COMMITTEE

Fall 2013-Present

**Visit Days/TGIF Chair.** Organize a weekly social hour for the department, including entertainment and logistics. Arranged visits for more than 150 prospective graduate students, working as a small team with dept. administration.

### PRINCETON UNIVERSITY ROCK ENSEMBLE

Spring 2010-Spring 2013

**Stage Manager.** Founding officer of a large college repertory rock ensemble. Planned and executed four two-hour performances per year. Scheduled and lead six to ten hours of rehearsal per week. Managed and maintained equipment.

### PRINCETON CHAPEL CHOIR

Fall 2010-Spring 2013

**Baritone.** As a member of a professional community choir, prepared and sung a full program of choral music weekly for Sunday services and for official university events. Performed commissioned works in collaboration with composers.

### PRINCETON UNIVERSITY JAZZ ENSEMBLES

Fall 2010-Spring 2013

**Pianist.** Working closely with faculty and visiting artists, rehearsed and presented themed concerts in both small and large group formats and in a diversity of styles. Paid performances at university events.

## Skills

**Computer Skills:** Extensive imperative and object-oriented programming in C/C++, Java, Go, Bash, Python, R, and Ruby. Frontend web development with CSS/Javascript. Integration testing with WebDriver. PCB design and layout. Machine learning and optimization, in Python, R, and Weka. Music notation, sequencing, and production.

**Language Skills:** Proficient in French, Korean.

**Professional Music:** Jazz and Rock Keyboards, Classical and Jazz Euphonium. Premiered pieces by Gunther Schuller and Akira Toda. Attended New England Conservatory Preparatory School, BU Tanglewood Institute, and more on full or partial merit scholarships. Private teaching on jazz piano and euphonium. Performed around Boston and Central Jersey areas, including Berklee Performance Center, Symphony Hall, Jordan Hall, and Alexander Hall.