# Christopher D. Sciavolino

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## Education

**Princeton University, School of Engineering and Applied Science** Princeton, NJ
*Master of Science in Engineering: Computer Science* Expected June 2021

**Cornell University, College of Engineering** Ithaca, NY
*Bachelor of Science: Computer Science | Minor: Business* December 2018
**Cumulative GPA:** 3.68 / 4.00
**Relevant Coursework:** Data Structures and Object-Oriented Programming • Analysis of Algorithms • Operating Systems • Artificial Intelligence • Machine Learning • Cloud Computing • Computer Vision • Databases
**Honors:** Dean's List (6 semesters) • Meinig Family Cornell National Scholar • John McMullen Dean's Scholar

## Technical Skills

**Languages:** Java • Python • JavaScript • PHP • HTML • CSS • Go • Swift • C • SQL • OCaml • R • Unix
**Libraries and Frameworks:** Git • React.js • Redux • d3.js • Node.js • Express • Flask • jQuery • Bootstrap

## Work Experience

**Airbnb Inc.,** San Francisco, California May – August 2019
*Software Engineering Intern*
- Develop a backend framework to serve datasets while minimally affecting uptime using Java and Airflow
- Provide an end-to-end solution, from dataset generation in Airflow to in-memory or off-heap access in Java
- Address concurrency issues when asynchronously downloading dataset updates to subscribing services
- Support dataset versioning so users can easily create, update, or revert new changes quickly and reliably

**Yelp Inc.,** San Francisco, California January – April 2019
*Software Engineering Intern*
- Integrate into an Agile product team to develop a new full-stack web service using React.js and Python
- Team up with a full-time engineer to take a UI design concept from planning to production in 2 weeks
- Write a technical specification for a real-time ingestion pipeline to collect and process clickstream data

**Capital One,** New York, New York June – August 2018
*Software Engineering Intern*
- Collaborate in a cross-functional Agile team to develop a full-stack microservices web application
- Develop component-based user interfaces using React.js and Redux libraries from design mockups

## Projects

**Scalable Music Streaming System Concept,** Cornell University January – May 2018
- Leveraged Spotify's developer API to actively stream music and generate individual feature vectors for songs
- Implemented a frontend system using Node.js, Express, JSX, and ml.js for a backend recommender model
- Stored authentication information and user interactions in a NoSQL database on Amazon DynamoDB

**Cornell Daily Sun Age Classification,** Cornell University August – November 2017
- Paired with another developer to create an iOS app to predict readership age using a Naïve Bayes model
- Analyzed, cleaned, and parsed 5500 rows of CSV data from Google Analytics about online article readership
- Achieved 76% accuracy using a bag-of-words feature vector on 800 articles and a 70/30 train-test split
- Processed, gathered insights, and visualized specific words indicative of a predicted age group classification

## Additional

- **Spoken Languages:** English (native) • Spanish (8 years)
- **Interests:** Education & Teaching • Data Science • System Scalability • UI / UX Design • Photography