



# Jeevan T. Farias

## EDUCATION

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BA Candidate, Major in Computer Science, Concentration in History. Expected graduation May 2019.  
Columbia University in the City of New York

## WORK EXPERIENCE

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**ARiSE Lab** at Columbia University, New York  
*Researcher, 9/2018 - present*

- Studying the use of machine learning in program analysis under the guidance of Dr. Suman Jana and Dr. Baishakhi Ray in the Computer Science Department
- Performing experiments involving machine learning models, code clone detection, and similarity analysis
- Preparing findings for publication on security vulnerability detection in source code using machine learning

**Center for Spatial Research** at Columbia University, New York  
*Developer and Research Assistant, 9/2016 - present*

- Researching peer-to-peer protocols (DAT), sensor networks, and data sharing
  - Using React Native to develop for mobile
- Created web maps and data visualizations
- Built custom CMS for management of a MongoDB database by non-technical users
- Worked primarily with Python and Javascript (Node.js, D3.js, p5.js)  
[<http://c4sr.columbia.edu>] [[https://centerforspatialresearch.github.io/colombia\\_site/](https://centerforspatialresearch.github.io/colombia_site/)]  
[<https://beyond-the-census.herokuapp.com/>]

**Brown Institute for Media Innovation** at Columbia University, New York  
*Developer and Research Assistant, 2/2018 - 7/2018*

- Built the website and data visualization for a collaborative research project between the graduate schools of Architecture and Journalism
- Premiered by WYNC on live radio and in print on Gothamist  
[<https://canners.nyc>] [<https://brown.columbia.edu>]

**Google Summer of Code**  
*Developer, 6/2017 - 9/2017*

- Worked with the Processing Foundation on p5.js
- Proposed and executed a 12 week project, making major contributions to the open source codebase of p5.js-sound, which resides in the main repository and laid foundations for further development
  - Redesigned features and refactored existing codebase for modularity
  - Created new audio processing effects and an accurate timing system for audio production
  - Designed APIs and implemented test suite
  - Optimized features for performance and efficiency  
[[https://jvntf.github.io/gsoc\\_workproduct/](https://jvntf.github.io/gsoc_workproduct/)]

**WKCR-FM** New York  
*Director of Engineering and Operations, 1/2018 - 12/2018*  
*Radio Programmer, 5/2016 - present*

- Oversaw general equipment usage and repair of station equipment and transmission infrastructure
- Taught FCC licensing classes on live music recording, playback, and broadcasting technology
- Developed new and modern infrastructure for playing and recording music at WKCR
- Curated programming for music shows across departments (In All Languages, American, and Jazz)

## TEACHING

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**Computer Science Department** at Columbia University, New York  
*Teaching Assistant (New York, NY)*

- Introduction to Data Visualization, 9/2018 - present
- Introduction to Computer Science and Programming in Java, 9/2016 - 5/2017
- Held office hours, graded assignments and exams

## VOLUNTEER

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**Columbia University Journal of Literary Criticism**  
*Design Editor, 9/2016 - present*

- Led graphic and layout design for an undergraduate literary publication

**The Petey Greene Program**  
*Tutor, 9/2016 - present*

- Volunteer tutor to incarcerated youth on Rikers Island

## CONTACT

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**E-mail**  
j.farias@columbia.edu

**Portfolio**  
<http://github.com/jvntf>

**Website**  
<http://jvn.tf>

## COURSEWORK

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Operating Systems, Compilers  
Natural Language Processing,  
Security Engineering, Networks,  
Computer Science Theory,  
Fundamentals of Computer Systems,  
Linear Algebra, Discrete Mathematics

## SKILLS

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### Computer Science

*Programming Languages*  
C, C++, Java, Ocaml,  
Javascript (Native, Node.js),  
Python, Ruby

### Tools

Git, Unix

### Web

HTML/CSS

### Software

*Graphic Design*  
Adobe Photoshop,  
Illustrator, InDesign

### 3D Design

Rhinoceros, Autodesk  
AutoCAD, Blender,  
Cinema4D

### Music Production

Ableton Live

### Music

Trumpet Player / Composer /  
Producer

### Fabrication

3D Printing  
Laser / CNC / Vinyl Cutting  
Soldering / Welding / Sewing  
Woodworking

### Language

Spanish