



Jeevan T. Farias

EDUCATION

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

WORK EXPERIENCE

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://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/]

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

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

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

Website
<http://jvn.tf>

COURSEWORK

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

SKILLS

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