190 Skillman Street 3F, Brooklyn NY, 10025

E-mail jeevanfarias@gmail.com

Website http://jvn.tf

Address

## **WORK EXPERIENCE**

#### **Development Seed**

Javascript Engineer, 4/2020 - Present

- Built web applications to support open data, climate science, disaster relief, and humanitarian goals
- Worked with React, Node, Mapbox GL, D3, Cypress, and Python
- Developed machine learning mapping tool and geospatial data analyis platforms
- Published as co-author in academic journal
- Managed teams collaboratively using agile methologies

#### SITU Research in Brooklyn, New York

Software Engineer, Researcher, 7/2019 - 4/2020

- Built high performance, custom applications in Javascript (Node, React, D3.js, Three.js, Deck.gl, Mapbox GLJS) to visualize geographic and three-dimensional data to document and analyze spatial, social, and environmental injustice
- Collaborated with journalists to publish work and shape narratives

ARISE Lab at Columbia University, New York

Researcher, 9/2018 - 6/2019

- Studied the use of machine learning in static analysis in collaboration with Computer Science faculty

Center for Spatial Research at Columbia University, New York

Developer and Research Assistant, 9/2016 - 6/2019

- Built a prototype for a decentralized sensor network using React Native and the DAT protocol
- Researched the application of user location data to urban infrastructure and equity problems
- Created web maps and data visualizations with Python and Javascript (Node.js, D3.js, p5.js, Express)
- Built custom CMS for management of a MongoDB database by non-technical users
- Collaborated with teams including developers, architects, linguists, and urban planners [https://hyfa.net/] [https://c4sr.columbia.edu] [https://centerforspatialresearch.github.io/colombia\_site/] [https://beyond-the-census.herokuapp.com]

# Computer Science Department at Columbia University, New York Teaching Assistant, 9/2016 - 6/2019

- Introduction to Data Visualization, and Introduction to Computer Science and Programming in Java
- Supported professors by hosting office hours to guide and advise students

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
- Project premiered by WYNC on 93.9FMNY and in print online by Gothamist NYC (http://gothamist.com) [https://canners.nyc] [https://brown.columbia.edu]

**Google Summer of Code Fellow** with The Processing Foundation *Developer*, 6/2017 - 9/2017

- Made major contributions to the open source codebase of p5.js-sound (The Processing Foundation)
- 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/]

## **EDUCATION**

Columbia University in the City of New York,

Bachelor of Arts, Class of 2019

Major in Computer Science, Concentration in History.

### Programming Languages

**SKILLS** 

Software Engineering

Javascript, Python, C, C++, Ocaml,

Java, Ruby

Tools

Git, Unix

Web HTML/CSS

#### Software

Graphic Design Adobe Photoshop, Illustrator, InDesign

3D Design

Rhinoceros, Grasshopper, Autodesk AutoCAD, Autodesk Fusion 360, Cinema4D, Blender

Geospatial

CloudCompare, QGIS

Music Production Ableton Live

#### **Fabrication**

3D Printing, Laser Cutting, CNC Milling, Vinyl Cutting, Soldering, Welding, Sewing, Woodworking

#### Music

Trumpet Player / Composer / Producer

#### Language

Spanish (Conversational)

### INTERESTS

Distributed Systems, Compilers Natural Language Processing, Computer Vision

## LINKS

#### Portfolio

http://github.com/jvntf

#### Linkedin

https://bit.ly/2Ht0YCZ

## ADDITIONAL EXPERIENCE

Creative Time X Summit

Workshop Presenter (with SITU Research), 11/2019

WKCR-FM New York

Director of Engineering and Operations, 1/2018 - 12/2018 Radio Programmer, 5/2016 - 6/2019 **Grupo Fenix,** Nicaragua *Volunteer,* 10/2014 - 12/2014

The Petey Greene Program Volunteer Tutor, 9/2016 - 12/2018

Columbia University Journal of Literary Criticism Design Editor, 9/2016 - 5/2019