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Website http://jvn.tf

## WORK EXPERIENCE

#### **Development Seed**

Javascript Engineer, 4/2020 - Present

- Worked with React, Node, Mapbox GL, D3, Cypress, Python, and AWS CDK
- Built web applications to support open data, climate science, disaster relief, and humanitarian goals
- Developed human-the-loop machine learning mapping tool using WebSockets
- Created MVP for analysis of massive agricultural data
- Published as co-author in academic journal
- Managed teams collaboratively using agile methodologies

[https://www.landcover.io/] [https://openaq.org/]

#### SITU Research in Brooklyn, New York

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

- Built high performance applications in Javascript (Node, React, D3.js, Three.js, Deck.gl, Mapbox GLJS)
- Prototyped GLSL shader for distanced based, progressive rendering of massive 3D point clouds
- Optimized data and applications to run 3D environments on minimal hardware and cellular connections
- Collaborated with journalists to document and analyze spatial, social, and environmental injustice

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
- Created web maps and data visualizations with Python and Javascript (Node.is, D3.is, p5.is, Express)
- Built custom CMS for management of a MongoDB database by non-technical users [https://hyfa.net/] [http://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

### 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

[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)

## **EDUCATION**

### Columbia University in the City of New York,

Bachelor of Arts, Class of 2019

Major in Computer Science (operating systems, compilers, networks, and security)

Concentration in History

# 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

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

## **SKILLS**

### Software Engineering

Programming Languages Javascript, Python, C. C++. Ocaml. Java, Ruby

Tools

Git, Unix, AWS CLI, Azure CLI, Docker

### 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**

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

#### 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

Grupo Fenix, Nicaragua Volunteer, 10/2014 - 12/2014