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Website http://jvn.tf

Address

# **WORK EXPERIENCE**

#### Development Seed

Javascript Engineer, 4/2020 - Present

- Contributed as Frontend, Backend, and ML Engineer on various project teams
- Worked with React, Node, Mapbox GL, D3, Cypress, Jest, Python, and AWS CDK
- Helped to design REST APIs and worked with SQL databases
- 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 via Al for Social Good at the AAAI Fall Symposium 2020
- 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, Three.js, Deck.gl, Mapbox GL)
- Created fluid and intuitive user interfaces and organized user testing to iteratively improve
- 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.js, D3.js, p5.js, 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) [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 (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 Volunteer, 10/2014 - 12/2014 Radio Programmer, 5/2016 - 6/2019

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

## **SKILLS**

#### Software Engineering

Programming Languages Javascript (React, React Native, Redux, Node,

Mapbox GL, Leaflet, WebSockets, D3, Three.js, Deck.gl, Webpack, Gulp, Cypress, Jest),

Python (Matplotlib, NumPy, Jupyter, pandas, AWS CDK),

C, C++, Ocaml, Java, Ruby

Tools

Git, Github Actions, CircleCl, Unix, AWS (S3, Step Functions, Lambda, CLI), Azure CLI, Docker

#### Software

3D Design Rhinoceros, Grasshopper, Cinema4D, Blender Geospatial CloudCompare, QGIS Music Production Ableton Live

#### **Fabrication**

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

### Music

Trumpet Player / Composer / Producer

#### Language

Spanish (Conversational)

# **INTERESTS**

Networking, Graphics, Sensing, Earth Data, Agriculture, Furniture Design, Natural Leavening

## LINKS

## Portfolio

http://github.com/jvntf

### Linkedin

https://bit.ly/2Ht0YCZ

Grupo Fenix, Nicaragua

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