Address 190 Skillman Street 3F, Brooklyn NY, 10025

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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) [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 Radio Programmer, 5/2016 - 6/2019

The Petey Greene Program

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

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

Volunteer Tutor, 9/2016 - 12/2018