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Website http://jvn.tf

EDUCATION

Columbia University in the City of New York,

Bachelor of Arts, Class of 2019

Major in Computer Science, Concentration in History.

WORK EXPERIENCE

SITU Research in Brooklyn, New York

Researcher, 7/2019 - Present

- Building high performance, custom applications in Javascript (React, D3.js, Three.js, Deck.gl, Mapbox) to visualize geographic and three-dimensional data to document and analyze spatial, social, and environmental injustice
- Preparing and curating digital assets with QGIS, CloudCompare, Blender, and Rhinoceros
- Working with small research team in house and with clients and collaborators including the International Criminal Court, Amnesty International, and UN Investigative teams
- Researching the future of architecture at the intersection of computation and fabrication

ARISE Lab at Columbia University, New York Researcher, 9/2018 - 6/2019

- Studied the use of machine learning in program analysis in collaboration with Computer Science faculty
- Performed experiments involving machine learning models, code clone detection, and similarity analysis
- Prepared results for publication on security vulnerability detection in source code with machine learning

Center for Spatial Research at Columbia University, New York Developer and Research Assistant, 9/2016 - 6/2019

- Used React Native to research peer-to-peer protocols (DAT), sensor networks, and data sharing
- Created web maps and data visualizations with Python and Javascript (Node.js, D3.js, p5.js)
- Built custom CMS for management of a MongoDB database by non-technical users
- Collaborated with teams including developers, architects, linguists, and urban planners [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
- 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 promoted by WYNC on 93.9FMNY and in print online by 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
- Made major contributions to the open source codebase of p5.js-sound
- 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/]

ADDITIONAL EXPERIENCE

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

- Led graphic and layout design team
- Used InDesign and Illustrator

WKCR-FM New York

Director of Engineering and Operations, 1/2018 - 12/2018 Radio Programmer, 5/2016 - 6/2019

- Oversaw usage, repair, and education for station equipment
- Curated programming for music shows

SKILLS

Computer Science

Programming Languages C, C++, Java, Ocaml, Javascript (React, Node.js, Three.js, D3.js), Python, 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)

TOPICS

Operating Systems, Compilers Natural Language Processing, Computer Networks

LINKS

Portfolio

http://github.com/jvntf

Linkedin

https://bit.ly/2Ht0YCZ

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

- Worked with incarcerated youth on Rikers Island
- Assisted students with mathematics, writing, and ESL

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

- Worked with local solar artisans to build and install photovoltaics
- Designed, built, and tested solar mobile phone chargers
- Painted a community center mural