Nishant Uniyal

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA
MASc Electrical & Computer Engineering
Aug 2014 | Vancouver, BC
Cum. GPA: 4.30 / 4.33
Emphasis in Machine Learning, Medical Image Processing, and Signal Processing

MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY
BSc in Electrical & Computer Engineering
May 2012 | Rolla, MO
Cum. GPA: 3.67 / 4.0
Graduated summa cum laude

TECHNICAL SKILLS

PROGRAMMING
Experienced:
Python
Intermediate:
C++ • C
Beginner:
SQL • R • HTML • Ruby • Bash • MATLAB

LIBRARIES AND PACKAGES
Scikit-learn • Keras • Tensorflow • Hyperopt • NumPy • Scipy • Pandas • NLTK • Spacy • Plotly • Superset • Pytest • OpenCV

TOOLS
Proficient:
Docker • Jupyter • Airflow • Git • Terminal • Pipenv • VS Code • Sublime Text • PyCharm • SQL Operations Studio • LaTeX
Learning:
Deep Learning • Data Science Infrastructure • Kubernetes • AWS • MongoDB • Django

OPERATING SYSTEMS
MacOS • Linux • Windows

LINKS
Website:// **Nishant Uniyal**
Github:// **nishantuniyal**
LinkedIn:// **nishantuniyal**
Google Scholar:// **Nishant Uniyal**

EXPERIENCE

BOEING VANCOUVER | Data Scientist
Nov 2017 – Present | Vancouver, BC
- Built a fully automated data engineering pipeline to injest and warehouse the data in a programmatical way.
- Developed NLP methods for text classification using classical machine learning and deep-learning methods.

CLARIUS MOBILE HEALTH | Research Scientist
May 2015 – Nov 2017 | Burnaby, BC
- Invented novel ultrasound imaging methods and developed imaging algorithms (listed inventor on 3 issued and another 3 filed patents).
- Developed various automated algorithms from inception to deployment, which are currently offered to customers as premium product features.

NZ TECHNOLOGIES | Software Design Engineer
Sep 2014 – May 2015 | Vancouver, BC
- Improved the gesture recognition and control system from 18 FPS to 30 FPS by integrating a new 3D infrared camera.
- Developed a real-time algorithm for perspective image correction using a projector-camera system.

PHILIPS RESEARCH | Research Collaborator
Sep 2013 – Jan 2014 | Braircliff Manor, NY
- Developed a machine learning package for data analysis and tissue classification which resulted in a publication.

UNIVERSITY OF BRITISH COLUMBIA | Graduate Research Assistant
Sep 2012 – Aug 2014 | Vancouver, BC
- Proposed and developed an innovative semi-supervised machine learning technique. (Best paper award)
- Developed a machine learning, signal processing, and image processing package which successfully detected breast and prostate cancer using ultrasound data.

PATENTS
- Uniyal, N et al. "Systems and Methods for Identifying an Imaged Needle in an Ultrasound Image." 16 Oct. 2018.
- Uniyal, N et al. "Methods and apparatus for performing multiple modes of ultrasound imaging using a single ultrasound transducer." 29 Jan. 2019.
- Uniyal, N et al. "Ultrasound systems and methods for optimizing multiple imaging parameters using a single user interface control." 4 Dec. 2018.

PUBLICATIONS
- Uniyal, N et al. "Ultrasound RF time series for classification of breast lesions." Medical Imaging, IEEE Transactions on , vol.PP, no.99, pp.1,1.
- Uniyal, N et al. "Ultrasound-based prediction of prostate cancer in MRI-guided biopsy." MICCAI CLIP, 2014. 142-150. [Best paper award, Presentation]

ACTIVITIES
- Secretary of ECE Graduate Student Association (ECEGSA) 2013-2014.
- Winner of the Three Minute Thesis (3MT) Department Heat, 2014 UBC.