

Gabriel Parent

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Experience

GPSE Consulting LLC, Seattle

May. 2018 - Present

Machine Learning Engineer

- Training: Machine Learning Engineering Workshop
- Data audits and assessments

Amazon Music, San Francisco

Nov. 2015 - Aug. 2017

Machine Learning Engineer II

- Area of work: music similarity metrics, signal processing, recommendation systems, music classification, deep learning
- Developed a generative model for automated playlist creation
- Fixed genre misclassification issues for 100K+ tracks
- Acted as a machine learning consultant for several external teams

Amazon.com, Seattle

Sept. 2011 - Nov. 2015

Software Development Engineer II

- Area of work: information extraction, machine learning, data mining, distributed systems
- Key contributor to a faceted search algorithm with attributed yearly sale of over \$500MM
- Published 3 academic papers at the Amazon Machine Learning conference
- Over 10 tech talks on various topics such as AWS, machine learning, and crowdsourcing
- Managed 1 full-time SDE direct report and two interns
- Onboarded/mentored 5 engineers, interviewed 130+ candidates
- Organized a Hackday for 3 consecutive years for my organization of 300+ engineers

DialRC, Carnegie Mellon University, Pittsburgh

Sept. 2009 – July 2011

Research assistant

- Maintain the *Let's Go Bus Information System*, a dialogue system for bus schedule in the City of Pittsburgh
- Organized monthly lunches on crowdsourcing for language technologies
- Transcribed over 1M speech utterances with crowdsourcing, used as training data for the Spoken Dialogue Challenge

West-DGI Lab, École Polytechnique de Montréal

May 2007 - May 2009

Research assistant

- Built a machine-learned classifier for temporal annotations
- Contributed to the French adaptation of the ISO-TimeML standard

Cascades Inc., Kingsey-Falls

May 2004 - Sept. 2005

IT technician

- Helped manage IT for a paper plant with 100+ employees

Technical Knowledge and Skills

Programming languages: python, Java, C/C++ and a few others

Libraries: Cython, numpy, pandas, seaborn, TensorFlow, sklearn

Tools: jupyter/ipython, Spark/Hadoop, Docker

AWS: S3, EC2, EMR, SQS, Redshift, ECS and proficiency with many more. 5 years of experience designing distributed systems

Web development: significant experience (6 years, 10+ apps) building web apps.

Other interests: linux, virtual reality, space exploration, blockchain technology, machine learning for astronomy

Education

Master in Language Technology

Carnegie Mellon University, GPA 4.03/4.30

August 2011

Bachelor of Engineering, Computer Engineering

École Polytechnique de Montréal, GPA 3.93/4.00

May 2009

Selected Publications

[Book] M. Eskenazi, G.-A. Levow, H. Meng, G. Parent, and D. Suendermann. *Crowdsourcing for Speech Processing: Applications to Data Collection, Transcription and Assessment*. Wiley, Hoboken, USA, May 2013.

Parent, G. & Eskenazi, M. (2010). *Toward better crowdsourced transcription: transcription of a year of the Let's Go Bus information System data*. In Proceedings of the IEEE Workshop on Speech and Language Technology 2010, Berkeley, USA.

Black, A. W., Langner, B., Parent, G. & Eskenazi, M. (2010). *Spoken Dialog Challenge 2010*. In Proceedings of the IEEE Workshop on Speech and Language Technology 2010, Berkeley, USA.

Parent, G. & Eskenazi, M. (2010). *Lexical Entrainment of Real Users in the Let's Go Spoken Dialog System*. In Proceedings of Interspeech 2010, Tokyo, Japan.

Parent, G. & Eskenazi, M. (2010). *Clustering Dictionary Definitions using Amazon Mechanical Turk*. In Proceedings of the NAACL/HLT workshop on Creating Speech and Language Data with Amazon's Mechanical Turk, Los Angeles, USA.

Program Committee

Member on the program committee for the Special Session on Advanced Crowdsourcing for Speech Processing and Beyond @ Interspeech, 2015.

Member on the program committee for the North American Association Computational Linguistic (NAACL) / Human Language Technology (HLT) workshop on Creating Speech and Language Data With Amazon's Mechanical Turk, Los Angeles, 2010.

Grants, Scholarships and Honors

Fonds Québécois de la Recherche sur la Nature et les Technologies. Master Research Scholarship	2010
Natural Sciences and Engineering Research Council of Canada, PGS Master Scholarship	2009
CAE/Fraser scholarship	2009
Fairfax Financial Holdings Ltd. scholarship	2006, 2007 and 2008
Natural Sciences and Engineering Research Council of Canada, Undergraduate Research Awards	2007 and 2008
De Vinci Distinction of École Polytechnique de Montréal	2009
<i>Based on the excellence of technical realizations as well as on social involvement</i>	
Dean's List of Excellence of École Polytechnique de Montréal	2005 - 2009

Spoken and Written Languages

French (Mother tongue) English (Fluent) Spanish (Proficient)

Non-Academic Interests

Sailing: I sailed my boat Rosinante up and down the coast of British Columbia, then from Seattle to San Francisco

Scuba Diving: PADI Assistant Instructor, 250+ logged dives, pro #255058

Mechanics: 1) GS500 1994 2) Magna V45 1982 3) R1200GS 2009

Traveling: 30+ countries and still counting

Music: guitar, diatonic accordion and karaoke aficionado