

NICHOLAS ANDRÉ G. JOHNSON

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Education

Princeton University, Princeton, NJ, U.S.A.	June 2020
Bachelor of Science in Engineering (BSE) Candidate, Concentration: Operations Research & Financial Engineering Certificates: Applications of Computing, Applied & Computational Mathematics, Statistics & Machine Learning GPA: 4.0 (on 4.0 scale)	
Marianopolis College, Montreal, Canada	May 2016
Honours Health Science, GPA 97%	
Selwyn House High School, Montreal, Canada	June 2015
National AP Scholar – Canada, GPA 98%, Valedictorian	

Experience

Google – Software Engineering Intern in Machine Learning	June 2019-Present
Conducting experimental advertisement revenue optimization	
Princeton University – Mittal Lab: Security and Privacy	February 2019-Present
Differential Privacy Researcher supervised by Professor Prateek Mittal	
Oxford University - Integrative Computational Biology and Machine Learning Group	February 2018-Present
Machine Learning and Computational Biology Researcher Developed a parallelized Markov Chain Monte Carlo Optimizer supporting Acceptance Ratio Annealing and Replica Exchange under the supervision of Dr. Aleksandr Sahakyan	
Princeton University Whitman College	February 2018-Present
Residential College Adviser (RCA) Work with a group of first year advisees to help them transition to life as Princeton students and develop responsible personal, academic, and social decision-making skills	
Princeton University Writing Center	September 2017-Present
Writing Fellow Offer individual conferences to undergraduate and graduate students across all disciplines of the University to workshop research papers, argumentative essays, etc. Editor for Tortoise Journal of Writing Pedagogy Select & edit manuscripts for a student-run annual journal that publishes excerpts of students scholarship	
Princeton Engineers Without Borders	December 2017-2018
President Oversee three international project teams working on sustainable engineering projects	
Project Manager – Peru Team Oversee the design of a gravity fed water distribution system and manage in country contacts	September-January 2018
Montreal Institute for Learning Algorithms	May 2018-June 2018
Deep Learning Researcher Implemented three ResNet architectures to reproduce the results of a Microsoft Research paper; explored various hyperparameter configurations and optimization protocols to improve the CIFAR-10 benchmark.	

Activities

Camp Mathématique de l'AMQ 2016 (Nationally sponsored Math Enrichment Program)	May 2016
Quebec Provincial Chess Champion (5 times)	2012-2016
2nd Place, Canadian Scholastic Team Chess Challenge (5 times)	2012-2016

Honours

Dr. Angela E Grant Best Modelling Poster Award	June 2019
Tau Beta Pi Engineering Honor Society Inducted as a Junior and elected as Chapter President for 2019 Calendar Year	November 2018
Shapiro Prize for Academic Excellence 2017-2018 Awarded for outstanding academic achievement during Sophomore Year (top 3.5% of the class)	August 2018
Shapiro Prize for Academic Excellence 2016-2017 Awarded for outstanding academic achievement during Freshman Year (top 3.5% of the class)	August 2017
Class of 1883 English Prize for Freshmen in Princeton's School of Engineering Awarded for doing the best work in English studies during the year and submitting the best essay	June 2017
Canadian Math Open: National Bronze Award (overall) & Silver Award (Quebec)	Winter 2016
Marianopolis College Award of Excellence for Outstanding Achievement in Math Competitions	June 2016
National Certificates of Distinction, University of Waterloo Fermat & Euclid Math Contests	2015
Duke of Edinburgh International Silver Award	Fall 2013

Skills

Spoken Languages: Fluent in English and French (Reading, Speaking, Writing)
Programming Languages: Java, Python, C++, R, Matlab, SQL