

# Shikib Mehri

HONOURS COMPUTER SCIENCE · UNIVERSITY OF BRITISH COLUMBIA

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## Education

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### University of British Columbia

Vancouver, British Columbia

B.Sc. IN HONOURS COMPUTER SCIENCE

Sept. 2013 - Apr. 2018

- Obtained an overall average of 88%, and an in-major average of 91%.
- Attained the Dean's List distinction every term I've attended UBC.
- Awarded the Science Scholar distinction for exemplary academic performance.

### University Transition Program

Vancouver, British Columbia

EARLY ENTRANCE TO UNIVERSITY

Sept. 2011 - Apr. 2013

- Completed five years of high school in two years as one of 20 students to attend this rigorous, highly-accelerated program.
- Graduated high school and subsequently entered university at the age of 15.

## Research

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### Video Captioning

Vancouver, BC

RESEARCHER

Sept. 2017 - PRESENT

- Currently doing research at the University of British Columbia with Dr. Leonid Sigal and Dr. Giuseppe Carenini in video caption generation.
- Implementing novel language generation strategies for seq2seq architectures, theorized through thorough analysis of existing research.

### CMMT @ BC Children's Hospital

Vancouver, BC

BIOINFORMATIC'S RESEARCH ASSISTANT

Aug. 2016 - PRESENT

- Developed novel algorithms for read alignment on a graph based representation of a genome.
- Implemented complex bioinformatics algorithms to run efficiently on consumer-grade hardware.

### Chat Disentanglement

Vancouver, BC

RESEARCHER

Aug. 2016 - May. 2017

- Completed my honours thesis with Dr. Giuseppe Carenini on the problem of thread disentanglement in multiparticipant chats.
- Leveraged novel strategies, including a weakly-supervised LSTM classifier, to attain state of the art results.
- First author publication accepted to **IJCNLP 2017** titled, "Chat Disentanglement: Identifying Semantic Reply Relationships with Random Forests and Recurrent Neural Networks"

## Work Experience

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### Machine Learning Consulting

Vancouver, BC

MACHINE LEARNING CONSULTANT

Jun. 2017 - PRESENT

- Performed consulting and freelancing services for numerous projects in the realm of deep learning and natural language processing.
- Advised international customers on applications of machine learning for their business needs.
- Implemented custom deep learning solutions for applications such as stock price prediction and information extraction.

### Microsoft

Redmond, WA

DATA SCIENCE INTERN

Jun. 2017 - Sep. 2017

- Worked on the Windows Feedback Analysis team, part of the Windows Core Data organization.
- Developed a generic and re-usable framework for applying state of the art deep learning strategies to language understanding problems.
- Designed and implemented a deep learning based semantic similarity model for the purposes of feedback clustering.
- Implemented an extremely effective LSTM seq2seq architecture for the purposes of feedback text summarization.

### Facebook

Menlo Park, CA

SOFTWARE ENGINEERING INTERN

Jan. 2017 - Mar. 2017

- Worked on the Translation team, part of the Applied Machine Learning organization.
- Developed numerous subword models for Neural Machine Translation.
- Improved the quality of translations on Facebook by 2+ BLEU for certain language directions.

### IntelliMed

Vancouver, BC

CO-FOUNDER AND CHIEF TECHNOLOGY OFFICER

Oct. 2015 - Jul. 2017

- Co-founded a startup to utilize technology to improve various pharmacy workflows.
- Obtained funding at a \$750,000 valuation.
- Led developers in building an application which fully automates the process of writing pharmacy medication reviews for patients.

## CS Teaching Assistant

UBC DEPARTMENT OF COMPUTER SCIENCE

Vancouver, BC  
Sept. 2014 - Dec. 2016

- Taught CPSC 110, CPSC 213 (Computer Systems), CPSC 313 (Operating Systems) and CPSC 304 (Databases).
- Ran labs containing 30+ students, lectured in tutorials, invigilated exams, held office hours and graded assignments and exams.
- Received exceptional TA evaluations with over 75% students rating me a 5/5.

## Facebook

SOFTWARE ENGINEERING INTERN

Menlo Park, CA  
May. 2016 - Jul. 2016

- Worked on the Ads Targeting Modeling team.
- Developed algorithms to generate/evaluate user-interest mappings from user-page interactions.
- Constructed an incredibly accurate classification model to predict the appropriate categorization of a given interest.

## Arista Networks

SOFTWARE ENGINEERING INTERN

Burnaby, BC  
Sep. 2015 - Dec. 2015

- Implemented functionality to detect incorrectly configured network switches.
- Developed strategies to change assignment strategies for linerate capable ports in order to decrease downtime.

## Projects

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### LSTM Chat Simulator

[HTTPS://GITHUB.COM/SHIKIB/RNN\\_CHAT\\_SIMULATOR](https://github.com/Shikib/RNN_CHAT_SIMULATOR)

Vancouver, BC  
Sept. 2017 - PRESENT

- Developing attention seq2seq LSTM model for the simulation of chat messages.
- Written in PyTorch, model outputs a reply given a sequence of messages.
- Currently deploying the trained model as a Telegram bot for use in multiparticipant chats.

### SaferSurrey

[HTTP://SAFERSURREY.COM/](http://safersurrey.com/)

Vancouver, BC  
Nov. 2016

- Won the Telus/IEEE Datathon and was awarded \$3000 in addition to the opportunity to pitch to the Surrey RCMP.
- Utilized machine learning in combination with crime data to identify the safest route home through dangerous parts of the city.

## Community Service

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### Technical Interview Workshop Facilitator

CS CO-OP OFFICE & ECESS STUDENT SOCIETY

Vancouver, BC  
May. 2017 - PRESENT

- Ran numerous technical interview workshops for the Computer Science Co-op program and the Electrical and Computer Engineering Science student society.
- Taught students strategies for solving algorithmic problems in an interactive learning environment.

### UBC Machine Learning Club

FOUNDER

Vancouver, BC  
Sept. 2017 - PRESENT

- Founded and organized an applied machine learning club for computer science students.
- Facilitated biweekly data science challenges for participants to compete in.

## Honors & Awards

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### EXTRACURRICULAR

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|------|---|-------------------|
| 2017 | <b>Finalist</b> , DataSense Salary Prediction Competition | Vancouver, BC     |
| 2016 | <b>1st Place</b> , Telus/IEEE Datathon                    | Vancouver, BC     |
| 2016 | <b>3rd Place</b> , ACM-ICPC Division II Regionals         | Pacific Northwest |
| 2016 | <b>2nd Place</b> , Microsoft Machine Learning             | Vancouver, BC     |
| 2016 | <b>Winner</b> , DubHacks RapidAPI Sponsor Prize           | Seattle, WA       |
| 2015 | <b>4th Place</b> , DataSense VanData Competition          | Vancouver, BC     |

### ACADEMIC

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|------|---|---------------|
| 2017 | <b>Charles and Jane Banks Scholarship</b> , University of British Columbia                  | Vancouver, BC |
| 2017 | <b>Trek Excellence Scholarship for Continuing Students</b> , University of British Columbia | Vancouver, BC |
| 2017 | <b>Science Scholar Distinction</b> , University of British Columbia                         | Vancouver, BC |
| 2014 | <b>British Columbia Government Scholarship</b> , University of British Columbia             | Vancouver, BC |
| 2013 | <b>Chancellor's Scholar Award</b> , University of British Columbia                          | Vancouver, BC |
| 2013 | <b>Canuck's Education Scholarship</b> , Vancouver Canucks Family Education Centre           | Vancouver, BC |