ERIC KEILTY

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Curious, passionate, detailed-oriented, and motivated **MASc graduate in Computer Engineering** from the **University of Toronto** with 4 summers of work experience in AI development including an internship with Salesforce, and additional experience in full-stack development. Proven ability to lead teams, manage clients, and consistently deliver high-quality presentations through 2 years of teaching and running a university course. Currently pursuing a career as an AI/ML technical consultant.

PROFESSIONAL SKILLS

- Python / PyTorch / TensorFlow
- Javascript / React
- C / C++
- AWS / GCP
- Complex Problem Solving
- Public Speaking / Interpersonal
- Data Visualization / Simple Explanations
- Adaptability / Flexibility

EDUCATION

Master of Applied Science - University of Toronto — **2021 - 2023**
Department: *Electrical & Computer Engineering*
Supervisor: *Andreas Veneris*

Bachelor of Applied Science - University of Toronto — **2017 - 2021**
Major: *Engineering Science – Machine Intelligence*
CGPA: *3.96*

St. Thomas Aquinas High School — **2013 - 2017**
GPA: *4.46 (Valedictorian)*

RELEVANT EXPERIENCE

Full Stack AI/ML Developer - Extropolis — May 2023 - Present

- Utilized large language models (GPT-4, LLaMA, etc) and prompt engineering to create helpful and personalizable assistants.

Head Teaching Assistant - University of Toronto — Sep 2022 - Dec 2022, Sep 2023 - Apr 2023

- Prepared and delivered weekly lectures to classes of over 100 students.
- Each semester, created from scratch 5 homework assignments, a midterm, and final exam.
- Led a team of 3 tutorial TAs and 10 grading TAs, ensuring timely completion of necessary tasks.
- Moderated a message board of over 300 students, responding to 400+ questions each semester.

AI/ML Intern Analyst - Salesforce — Sep 2020 - Dec 2020

- Utilized NLP techniques and pre-trained models to analyze internal customer correspondences to improve existing customer support chatbot.
- Led a team of 3 interns, spearheading architecture and method of the solution, achieving results and insights beyond the expectation.

NLP Researcher - University of Toronto
May 2020 - Sep 2020

- Implemented pre-trained BERT and GPT-2 models in both PyTorch and TensorFlow in a chatbot designed to have Motivation-Interviewing style conversations.
- Configured and hosted user testing server on a Google Cloud virtual instance to test chatbot performance using a study with participants from prolific. Received higher quality scored compared to the previous model.

Full Stack AI/ML Developer - AskVoco
May 2019 - Jan 2020

- Implemented Text-to-Speech and BERT for automatic categorization of audio content, integrated as an Alexa Skill to provide Alexa users with more personalized content.
- Designed company website connected to a firebase database to host audio content, audio metadata, user accounts, and user metadata. As part of the website, created an RSS parser to get audio content from users.

Java Backend Developer - DNAStack
May 2018 - Aug 2018

- Received the internship through the 2018 Google Summer of Code program.
- Collaborated with the Global Alliance for Genomics and Health (GA4GH) to create and implement a standardized API for genomics health data. The API was created using the Java Springboot framework, integrated with a MYSQL database, packaged with Maven, and authenticated with Keycloak.

Junior Programmer - University of New Hampshire
Jun 2015 - Aug 2015
Jun 2016 - Aug 2016

- Developed C++ libraries for sonar equipment to model refraction in the sound speed profile, resulting in increased efficiency compared to the previous software.
- Created a graphical interface in Cesium.js for mission planning of autonomous robotic boats.

AWARDS & ACHIEVEMENTS

- **Best ECE Teaching Assistant Award**
- Shortlist of TATP TA Teaching Excellence Award

2023

- **Award of Excellence** – 3.9 CGPA or higher in all semesters of undergrad
- University of Toronto Scholar

2021

- **NSERC Research Grant**

2020

- 1st place in UtraHacks hardware hackaton
- 3rd place in semester-long Autonomous Robot design and construction project

2019

- Ranked #1 in the Engineer Science program – highest GPA and course average
- Fujino/Smith Emergence Scholarship

2018

- **Valedictorian** – highest GPA in high school
- **Student Athlete of the Year**
- **National AP Scholar Award** - score 4 or higher on 8 or more exams

2017