ERIC KEILTY

Greater Boston Area | 603.970.1800 | epkeilty@gmail.com

linkedin.com/in/ekeilty | erickeilty.com | github.com/ekeilty17

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

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
Department: *Electrical & Computer Engineering*
Supervisor: *Andreas Veneris*
2021 - 2023

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

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

RELEVANT EXPERIENCE

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

- Utilizing 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.
- Created the course assignments, midterm, and final exam.
- Led a team of 15 tutorial and 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 the architecture and solution methodology, achieving results and insights beyond expectations.

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 previous models.

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. 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.

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
- **National AP Scholar Award** - score 4 or higher on 8 or more exams
- **Scholar Athlete Award (Student Athlete of the Year)** - out of 20+ NH/ME Seacoast high schools

2017