# Krutheeka Rajkumar, BS, MEng

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## EDUCATION

**UNIVERSITY OF TORONTO**                                              **Toronto, Ontatrio**
Masters of Engineering – Emphasis on Analytics                          [Aug 2018- Present]
Department : Mechanical and Industrial Engineering                     [Engr GPA: 3.94/4.0]
**COLORADO STATE UNIVERSITY**                                  **Fort Collins, Colorado**
Bachelor of Science                                                   [Sept 2013- May 2017]
Major: Engineering Science. Concentration in Space Engineering         [Engr GPA: 3.19/4.0]
Minor: Mathematics

## EXPERIENCE

**PRIMARY PROGRAMMER FOR TRAY SOLUTIONS**                           [May 2019 – Present]
**[Front and back end developer][Hatchery – University of Toronto]**
- Website created through Django framework and deployed through AWS

**TEACHING ASSISTANT IN DATA STRUCTURES – UNIVERSITY OF TORONTO**     [Jan 2019 –April 2019]
**[Teaching Assitant and Lab Coordinator][Data Modeling]**
- Lab teaching assistant in data modeling, MySQL and Java

**VICTORIA UNIVERSITY IN UNIVERSITY OF TORONTO**                    [Sept 2018 – May 2019]
**[Web Developer][E.J. Pratt Library]**
- Getting training on working with Drupal and mainintain the EJ Pratt library website and database management.

**[INTERN][INTEGRATED NANOTECHNOLOGY LAB- Dr. Muhammad Mustafa Hussain]**     [June 2017-Dec 2017]
- In charge of designing and constructing a heart sleeve that would be capable of actuating heart muscles to help with ventricular blood circulation
- A soft robot was contructed that would actuate upton an electrical stimulus. The testing and configuration of this robot was done and a final report was presented to the university.

**COLORADO STATE UNIVERSITY**                                      [Aug 2016- May 2017]
**[TEAM MEMBER] [MOTOR ENGINEERING RESEARCH CENTER – Dr. Donald W. Radford]**
**Senior Engineering design project- BOEING- 3D printed Attenuator team**
- Designed and analyzed the dual gantry system on a 3D printer capable of printing PEEK thermoplastics.
- Responsible for creating the CAD model of the printer. Doing mechanical and heat analysis on the CAD.
- Machined custom aluminum components for a 3D printer using a CNC, vertical mills, horizontal band saw

**COLORADO STATE UNIVERSITY**                                      [Jan 2016 – May 2016]
**[TEAM MEMBER] [MECHATRONICS LAB]**
- Constructed an Interactive Punching bag for the Mechatronics Project:
- In charge of electronic and mechanical integration of the project
- Experience with IR sensors, SD card and microcontroller programming and actuator integration.

## ASSETS & INTERESTS

- Django framework implementation and deployment to Elastic Beanstalk
- Experience in Machine learning, data prediction and implementation of scikit learn, matplotlib, pandas
- Certification in [APTECH Learning]:                                   Bangalore, India
  - C/C++, Java                                                        [Jan 2018-Aug 2018]
  - JSON, UI/UX, Adjile, JQuery, MySQL, Oracle
  - HTML, JavaScript, CSS
- Experience in Machining tools, linkage systems, electrical rsystems and mechatronic systems.
- Knowledge in Aerodynamic, space propulsion, mechatronics systems and Fluid systems

- Adobe Photoshop, Java, ANSYS programming analysis, CREO parametric modeling, SolidWorks CAD modeling, CNC and lathe machining, Microsoft word, Microsoft Excel and Microsoft PowerPoint
- Certified in lab safety training, hazardous waste disposal and first aid
- Languages:English, Hindi, Tamil.

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## EXTRACURRICULAR ACTIVITIES

**Financial Director, AMIGAS (Association of Mechanical and Industrial Graduate Students):**        **[May 2019 – Present]**
- Incharge of maintaining financial records of the association, budgeting for the academic year, applying for funding and general maintanace of all financial transactions that go through the club.

**Member, ISA (Indian Students Association):**        **[Sept 2013 – May 2017]**
- MC/ Event manager for India Nite 2013-2015
- Involved in the organization, coordination, and marketing for Indian Events (Diwali night, Holi, World Unity Fair and India Nite) around CSU.

**Volunteer, CSU Chemistry Club:**        **[Sept 2013 – May 2017]**
- Participated in setting up and conducting STEM projects and community outreach programs.