Hamza Motiwalla Boulder, CO

hamza.motiwalla@colorado.edu Mobile: (720) 998 7818
www.linkedin.com/in/hamza-motiwalla/

EDUCATION

- **Masters of Science, Computer Science (Research-Based)** Graduation: May 2021
  University of Colorado Boulder *Boulder, CO*
  Relevant Courses: Security and Ethical Hacking, Advanced Operating Systems

- **Bachelor of Technology (with Honors), Computer Engineering** July, 2015 – May, 2019
  College of Engineering, Pune *Pune, India*
  GPA: 8.95/10.0; Top 10 of the Class

TECHNICAL STRENGTHS

C, Java, Python, Assembly(x86), bash, gdb, GCP, LaTeX, Git, Unix, Linux(Kernel Programming), Docker, Kubernetes, SQL, Hadoop, Spark, bufferoverflow attacks, tensorflow.

EXPERIENCE

- **Technology Analyst at Credit Suisse India** Pune, India
  Internship, Swiss Universal Bank IT Division *Summer 2018*
  Worked on **Resume Analysis using NLP techniques**. We extracted important features from the given documents using nltk and created a classification model based on TF-IDF vectorization and Cosine Similarity Test to rank each candidate with respect to the job description.

PROJECTS

- **Serverless Computing on Edge devices** OpenFaaS, Bash
  Ongoing research project for CSCI 5573 Advanced Operating Systems *Fall 19*
  Building a serverless platform using OpenFaas tailored for resource constrained edge environments in order to provide high scalability and real-time communication. Also identify the security vulnerabilities of deploying a serverless architecture on the edge.

- **Compression Algorithm Library** C
  https://github.com/hamzam15comp/Compression-Library *COEP, Aug'16-Dec'16*
  Programmed two compression algorithms: Huffman Encoding & LZ77 for efficient data management. Used extensive knowledge of data structures and C programming language

- **Non-Performing Asset Prediction for financial institutions** Bash, Python, Tensorflow
  BTech Technical Report *COEP, Jan 2019 - May 2019*
  Designed a predictive machine learning model which will factor in past transaction history, financial statements and other background information of the borrower. Collaborated with two other students and established myself as a team leader.

EXTRACURRICULAR ACTIVITIES

- **Rowing and Kayaking:** I was awarded the Best Outgoing Rower Trophy 2019 at the 91st annual COEP Regatta. I'm a Gold Medalist rower and kayaker who has represented the COEP Boat Club at multiple state/district level competitions since 2015.

- **Water Pollution Activist** As a JalMaitri Volunteer for COEP Boat Club I've participated in and organized multiple River Cleaning Campaigns and spread awareness about water conservation and water pollution throughout the years. I was awarded a Certificate of Acknowledgement for International Coastal Cleanup by the Indian Maritime Foundation.