2300, Arapahoe Ave. APT 338,
Boulder, CO - 80302, USA

+1-720-980-4253

Amit.Roy@colorado.edu

Amit Baran Roy

https://amitprospeed.github.io

https://www.linkedin.com/in/amitbaranroy

EXPERIENCE

Teaching Assistant *Summer 2020, CU Boulder*
CSCI-3022 *Intro to Data Science with Probability and Statistics*

CenturyLink, Software Developer Intern *May 2020, Boulder, CO*
Internship offer accepted. Cancelled due to COVID-19.

Research Assistant, Internet Systems Lab *Jan 2020–Present, CU Boulder*
- Developed a CMAS spoofer for generating fake SIB12 alerts in 4G LTE networks.
- Developed a digital signature solution and modified Android OS to verify SIB12 alerts.
- Technology: C/C++, Java, Python, srsLTE, Flask, Android OS, HTML, CSS, Bootstrap, NextEPC

Mcfadyen Digital, Full Stack Developer *Aug 2016–Jul 2019, Bangalore, India*
- Developed a payment framework using Oracle ATG to integrate country specific third party payment vendors (CyberSource-Global, Sofort/iDeal/Bancontact - Europe, Alipay/Wechat H5 - China, KCP/KakaoPay - Korea) for Louis Vuitton e-commerce. This increased LVMH's revenue by a record breaking 15% upto $59 billion in 2019.
- Developed a fulfillment pipeline framework to integrate retail and warehouse management services like sales order creation, customer creation, invoicing, tracking numbers and shipping partners from SAP and Infolog systems for Louis Vuitton e-commerce.
- Onsite UAT support and interaction with global teams for LV EMEA project Go-Live at Paris, France.
- Created a custom address search feature using Google Maps API and jQuery for LV Middle East.
- Developed a REST based connector between ATG commerce and Mirakl marketplace platform as a POC that helped company to win the Albertsons Co.s online marketplace project (2018).
- Technology: Java, J2EE, REST/SOAP, Oracle SQL, Junit, Mockito, Jboss, Linux, Html, CSS, Javascript, Git, Bitbucket, Jenkins, Oracle Commerce

PROJECTS

SOAM Word Embeddings- A word embedding model based on skipgram architecture, *May 2020*

Occupancy Network based 3D Image Reconstruction using Single-Depth View- Generates high resolution 3D images from single 2.5D view using GANs and 3D Convolution NN, *Feb-April 2020*

P2P Resource Pool- P2P abstraction service to share resources like storage, bandwidth, *Feb-Apr 2020*

Paraphrase Detection- A BiMPM model that detects if two sentences are paraphrases, *Sep-Dec 2019*

AquaPredicto — Freshwater quality management system for lakes- Acquires freshwater data of a lake and predicts the probable changes in the water body using Regression and NN, *2016 | R10-HTC*

EDUCATION

M.S. Computer Science, University of Colorado Boulder *Aug 2019 - Present, Boulder, CO*
- GPA- 3.75/4.00, Data Science Specialization, Graduation- May 2021
- Courses- Machine Learning, Design & Analysis of Algorithms, Neural Networks & Deep Learning, Distributed Systems, Convex Optimization, Datacenter Scale Computing

B.E. Electronics & Instrumentation, BMSCE *Grad. May 2016, Bangalore, India*
- GPA- 9.58/10.00, Gold Medallist
- Courses- Digital Signal Processing, Operating Systems, Computer Networks, Embedded Systems

SKILLS

Python, Numpy, Pandas, Scikit Learn, Tensorflow, Java, J2EE, SOAP, REST, C, C++, JavaScript, jQuery, HTML, CSS3, Bootstrap, JUnit, MySQL, Redis, MATLAB, LabView, Jboss, Git, Linux, Bitbucket, Maven, Jenkins, JIRA, GCP, Waterfall, Agile, Machine Learning, NLP, Deep Learning, Computer Vision

AWARDS

Excellence Award, Mcfadyen Digital *2017*

Best Student Section- Outstanding Project Award, ISA District 14 *2016*