

RUCHI DHAMNANI

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Education

UNIVERSITY OF COLORADO BOULDER

Master of Science in Computer Science

Aug 2022 - May 2024

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY (IIIT) RAIPUR

B. Tech. in Electronics and Communication Engineering

Aug 2016 - Jun 2020

GPA - 8.18/10.0

- Teaching Assistant, Operating Systems, IIIT Raipur.

Full-time Work Experience

DELOITTE

Dec 2020 - Jun 2022

Analyst, Software Engineer

Bengaluru, India

- Implemented various health check APIs to ensure proper functioning of different components of the Advisory's backend at regular intervals
- Logged the report generated by the health check APIs in a S3 bucket of AWS and implemented IAM policies for proper access management
- Implemented a UDP Socket in Java Script to log the data to S3 bucket. UDP Socket was used to ensure sparing use of resources
- Created a bot for automating configuration tasks through PYRFC and python scripting by connecting to client SAP systems

Internship Experience

INDUSOS

Jul - Nov 2020

Software Engineering Intern

Mumbai, India

- Implemented serverless functions (lambda) in python and hosted them on AWS SAM therefore reducing the cost of operation by **41%**
- The scheduled lambda reads daily configuration, prepares custom notifications for each user and saves it on redis
- The SAM-lambda helps the architecture provide better performance for **12-25** million users everyday

TECHNION, ISRAEL

Jan - Jun 2020

Research Intern (Machine Learning)

Haifa, Israel

- Designed a novel Neuromorphic data converter using synapses of Memristive devices (Y-Flash)
- Implementation of neuromorphic applications like Vector-Matrix Multiplication and Spike Time Dependent Plasticity in MATLAB
- Designed Digital to Analog Converter trained by fully digital feedback trained using **stochastic gradient descent**

NCTU, TAIWAN

Jun - Jul 2019

Summer Intern

Hsinchu, Taiwan

- Built software interface to analyze performance of various circuits
- Programmed in HSPICE and Compared performance of operational amplifier and different operational transconductance amplifiers

Honors & Awards

- Applause and Spot Award** at Deloitte for extraordinary contribution to client deliverables, 2021.
- Amazon Diversity Women's Coding Challenge**, In Top 15 out of 7380 in Jul. 2021 [Link] and Dec. 2021 [Link].
- Gold Certification (Programming)** at Deloitte Training Bootcamp for campus recruits, 2020.

Technical Skills

Proficient: C++, Python, MATLAB, SQL, Git, JavaScript, JQuery

Comfortable: Pytorch, Java, Keras, TensorFlow, Spark, Django

Familiar: PHP, OpenCV

Research Papers

- Agrawal P., **Dhamnani R.**, Garg A., Tripathi S., Majumder M., "An Efficient Wireless Charging Technique Using Inductive and Resonant Circuits", VLSI Design and Test 2019, Communications in Computer and Information Science, vol 1066. Springer, Singapore [Link]
- Agrawal P., **Dhamnani R.**, Garg A., "Approximate Computing Techniques for Deep Neural Networks", International Workshop on the Physics of Semiconductor Devices, IWPSD 2019, Springer (Accepted)

Academic Projects

INDUSOS

Jul - Nov 2020

- Implemented serverless functions (lambda) in python and hosted them on AWS SAM therefore reducing the cost of operation by **41%**
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