

# RUCHI DHAMNANI

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## EDUCATION

### University of Colorado Boulder

Graduating – 15 May 2024

*Masters of Science in Computer Science, specialization in Data Science (GPA: 4/4)*

*Boulder, CO*

**Courses:** Datacenter Scale Computing, Natural Language Processing, Big Data Architecture, Foundations of Software Engineering, Numerical Linear Algebra, Data Mining, Capstone Project

### International Institute of Information Technology, Raipur

Jul 2016 – May 2020

*Bachelor of Technology in Electronics & Communication Engineering (GPA: 8.18/10)*

*Raipur, India*

## WORK EXPERIENCE

### Salesforce

May 2023 – Aug 2023

*Software Engineering Intern*

*San Francisco, USA*

- Derived performance insights to identify JavaScript memory leaks and resolve client-side errors
- Streamlined processes by reducing manual touchpoints from nine to one, automating infrastructure provisioning
- Optimized core revenue component (70% of total revenue) for scalability and design

### Deloitte

Dec 2020 – Jun 2022

*Senior Software Engineer*

*Bangalore, India*

- Reduced project completion time by 30% by automating configuration tasks using PYRFC(Python Package)
- Created a REST API Node.js boilerplate for performance monitoring of different components in firm applications
- Logged the report generated by the APIs in an AWS S3 bucket with the help of a UDP Socket

### Phonepe(IndusOS)

Jul 2020 – Nov 2020

*Software Engineering Intern*

*Mumbai, India*

- Implemented serverless functions (lambda) in python and hosted them on AWS SAM thus reducing the cost by 41%
- Developed SAM-lambda helped the architecture to provide better performance for 12-25 million users everyday

### Israel Institute of Technology, Technion

Jan 2020 – Jun 2020

*Research Intern (Supervised by: Professor Shahar Kvatinsky)*

*Haifa, Israel*

- Designed a novel data converter using synapses of Memristor, trained by **stochastic gradient descent**
- Implemented neuromorphic applications like VMM and improved performance upto 2x of design in MATLAB

### National Chiao Tung University

Jun 2019 – Jul 2019

*Research Intern (Supervised by: Professor Ke Horng Chen)*

*Hsinchu, Taiwan*

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

## ACADEMIC PROJECTS

**InfoSpectrum:** ElasticSearch powered web application for company information and layoff insights, hosted on GCP.

**EasyPay:** Flask-app to support payments and categorize, uses TDD with 31 unit tests in pytest and 90% code coverage.

**Human Value Detection:** Analyzed Webis-Arg data using Random Forest, Logistic Regression & Bidirectional LSTM.

**URL Lister:** Used Hadoop Streaming API to create URLCount tool by implementing mapper and reducer.

**Bookstore Backend:** Implemented RESTful APIs following MVC Architecture in JavaScript using Express framework.

## SKILLS

**Programming Languages:** C, C++, Python, Groovy, JavaScript, Java

**Frameworks & Tools:** Jenkins, NodeJs, ExpressJS, JEST, Swagger, JSDoc, Docker, ReactJS, VueJS, Flask, Grafana

**Databases & Data Stores:** MySQL, Postgres, MongoDB, Redis, **ElasticSearch**, Keycloak, Alembic, CircleCI

**Cloud Technologies:** GCP, AWS, Heroku

## POSITION OF RESPONSIBILITIES & AWARDS

- **Graduate Staff** Course Manager, manage 300+ students for course Software Development Tools and Methods, 2023.
- **Rewriting the Code & Society of Women Engineers** member and scholar, 2023.
- **Graduate Scholar** at University of Colorado Boulder for WE 2022, WE 2023 and GHC 2023.
- **Treasurer** elected for executive position from 300+ students for Computer Science Graduate Student Association, 2023.
- **Professional Development Chair** at CU Boulder for Graduate Society of Women Engineers, 2023.
- **ACM-W Student Chapter Representative** at CU Boulder Conference Director for Women in Computing, 2023.
- **Applause and Spot Award** at Deloitte for extraordinary contribution to client deliverables, 2022.