

# Rohit Swami

EXPERIENCED FULL STACK SOFTWARE ENGINEER · TECHNICAL LEADER

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*"Transforming ideas into scalable solutions"*

## Skills

<b>Programming</b>	C/C++, Python, R, Ruby, HTML5, CSS, JavaScript
<b>AWS</b>	Batch, EC2, Lambda Functions, S3, CloudWatch, ECR, Cognito, RDS, DynamoDB, Amplify
<b>Frameworks/Tools</b>	React.js, Node.js, Docker, Containers, Flask, Django, FastAPI, Ruby on Rails, Shiny, WebSocket, Jira
<b>Databases</b>	MySQL, PostgreSQL, Cassandra, MongoDB, DynamoDB, Kafka, Redis, MariaDB, Elasticsearch
<b>Paradigms</b>	Agile, Data Structure & Algorithms, Microservices Architecture, RESTful APIs, CI/CD pipelines
<b>Languages</b>	English, Hindi

## Experience

### Elucidata

*Remote - New Delhi, India*

SOFTWARE ENGINEER II

*Feb. 2022 - Present*

- Leading high-performing software engineering team, actively engaged in code reviews, finalizing product architecture, while successfully gathering and translating client requirements into scalable solutions.
- Designed and implemented highly scalable and fault-tolerant fully automated data pipelines in Python on AWS (ECR, Batch, Lambda, and S3), processing over 1 TB of critical data daily.
- Collaborated with internal teams and international clients to provide expert technical support, enabling them to leverage the full potential of AWS with effective communication and guidance.

SOFTWARE ENGINEER I

- Implemented an internal job submission system which enabled internal users to submit and manage batch jobs efficiently, streamlining operations and optimizing productivity.
- Spearheaded the development and deployment of a suite of interactive dashboards using R Shiny

### Ignite Solutions

*Pune, India*

SOFTWARE ENGINEER

*Jan. 2021 - Feb. 2022*

- Created and deployed demand forecasting machine learning models in Python for retail energy provider to eliminate uncertainty with confidence and operate at their full potential.
- Conducted research on big data provided by MasterCard and came up with the probability to sell a product in a particular geo-area in United States. Built a back-end in Python Flask to support the analysis.
- Single-handedly built internal recruitment portal using Google APIs and Python Flask framework.
- Performed routine data analysis in Python for international clients, leveraging insights to drive informed decision-making and enhance product performance.

### InterviewBit

*Bengaluru, India*

SOFTWARE ENGINEER, INTERN

*Aug. 2019 - May. 2020*

- Implemented an end-to-end auto-suggestion tool to find the semantic similarity between the solution of student's queries and deployed the model as a REST-API on AWS EC2 using Python Flask backend.
- The proposed system drastically reduced the query resolution time of 72% of students from 2 days to 13.3 minutes (average).
- Developed a dashboard to analyse the Key Performance Indicator (KPI) using SQL queries.
- Built an NLP tool in Python to calculate the percentage of code and text in TA's responses to increase the overall interaction of students and TAs.
- Wrote scripts to send emails and migrate 1500+ students from Flock to open-source platform Mattermost.
- Revamped InterviewBit's webpages and worked on content creation of Data Science, Machine Learning and Deep Learning.

### MyGov (funded by Ministry of Electronics and Information Technology, India)

*New Delhi, India*

DATA ANALYST, INTERN

*Jun. 2018 - Jul. 2018*

- Analyzed sentiments of public on different government policies and campaigns on social media.
- Exported over 4000 tweets with Twitter API and built a hybrid solution to classify each tweet as positive or negative with KNN algorithm.
- Performed data mining operations on websites for various internal purposes.

## Personal Projects

### Indian Paper Currency Classification

[Demo](#) • [Code](#)

END-TO-END APPLICATION DEVELOPMENT

*Jun. 2020 - Jul 2020*

- Collected the images from search engines and trained a Convolutional Neural Network (CNN) model to predict the 7 types of Indian paper currency i.e. 10, 20, 50, 100, 200, 500, 2000.
- Deployed the machine learning model on Heroku with Flask back-end and secured the app with CSRF protection.

## Education

### Lovely Professional University

*Jalandhar, Punjab, India*

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

*Aug. 2016 - Aug. 2020*

- Relevant Coursework** - Data Structures and Algorithms, Database Management Systems, Operating Systems, Software Engineering, Web Development, Computer Networks, Artificial Intelligence, Computer Graphics, Cloud Computing, Cybersecurity Software Testing and Quality Assurance, Mobile App Development
- Awarded the Star Student title by the Chancellor in recognition of winning a hackathon competition.
- Collaboratively developed a viral URL shortener application with three college peers, hosted on AWS, which gained widespread adoption within the university campus, simplifying link sharing and tracking for hundreds of students.

## Extracurricular Activity

### Microsoft Community

*LPU Campus*

FOUNDING MEMBER

*Aug. 2017 - Sept. 2018*

- Founded and led a thriving technical community on campus, spearheading the hackathons under the banner of Microsoft for two consecutive years in the campus.
- Conducted hands-on workshops on topics including version control, web development, and other relevant technologies to enhance the skill set of community members

## Awards & Achievements

### INTERNATIONAL

2023 **Expert Tier**, in Dataset (Top 0.05%) & Notebook (Top 0.07%) category on Kaggle



2019 **9th Place**, Predict an Ad's Success: Machine Learning Challenge by HackerEarth



### DOMESTIC

2019 **Top 10**, out of 45+ teams in HaXplore Hackathon

*IIT-BHU*

2017 **1st Place**, out of 35 teams in Employees vs. Students edition Hackathon

*Infosys, Chandigarh*

2017 **Participated**, IT Hackathon 4.0

*Kota, Rajasthan*

2017 **Participated**, IT Hackathon 2.0

*Jaipur, Rajasthan*

## Publications

### Indian Currency Classification Using Deep Learning Techniques



IEEE XPLORE, ISBN: 978-1-6654-3702-8

*Jan. 2022*

### Sentiment Analysis with Fully Supervised Speaker Diarization



THINK INDIA JOURNAL, 22(3), 8382-8391, ISSN: 0971-1260

*Jul 2019*

### Automated web development: theme detection and code generation using Mix-NLP



ACM - INTERNATIONAL CONFERENCE PROCEEDINGS SERIES (JUN, 2019) DOI: 10.1145/3339311.3339356

*Jun 2019*

### Driver Fatigue Detection System with Mobile Notification Alarm



INTERNATIONAL JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH

*Dec 2018*