

ROHIT SWAMI

+91-8059459498 ◇ New Delhi, India

rohitswamicode@gmail.com ◇ [linkedin.com/in/rowhitsuami](https://www.linkedin.com/in/rowhitsuami) ◇ www.rohitswami.com

OBJECTIVE

Experienced Software Engineer with 3.5+ years of expertise in full-stack development and scalable, cloud-based solutions for life sciences and ed-tech applications. Skilled in Python, R, AWS, Docker, and Shiny, with a strong focus on processing and visualizing high-throughput omics and clinical datasets. Recognized for ensuring regulatory compliance and enhancing team productivity through strategic problem-solving and collaborative leadership. Seeking opportunities to apply my technical acumen to impactful software development in a forward-thinking, dynamic team.

SKILLS

Technical Skills	Python, R, HTML5, CSS, JavaScript, TypeScript, GraphQL
Frameworks/Tools	React.js, Node.js, Redux, Docker, Flask, Django, Ruby on Rails, Shiny, Jest, Cypress
Paradigms	Agile development, Microservices Architecture, CI/CD Pipelines, Load Balancers
Soft Skills	Effective Communication, Problem Solving, Time Management, Leadership
AWS	Elastic Beanstalk, Batch, EC2, Lambda Functions, ECR

EXPERIENCE

Senior Software Engineer

Elucidata

Feb 2022 - Present

New Delhi, India (Remote)

- Designed and deployed AWS-based pipelines to process high-throughput omics data (genomics, transcriptomics, metabolomics), ensuring scalability and reliability for biomedical research.
- Developed R Shiny applications for dynamic visualization of clinical and experimental datasets, enhancing decision-making in translational research.
- Architected data pipelines compliant with HIPAA and GDPR, ensuring secure handling of sensitive patient and clinical datasets.
- Partnered with computational biologists and researchers to tailor solutions for next-generation sequencing (NGS) and mass spectrometry workflows.
- Led a team of three engineers in developing essential system components and core functionalities, significantly enhancing project architecture and foundational stability.
- Elevated team performance through mentoring in advanced AWS practices, strengthening technical skills, and improving project delivery timelines.

Software Engineer

Elucidata

- Implemented an internal job submission system, enabling efficient batch job submission and management, streamlining operations and optimizing productivity.
- Engineered APIs, adhered to clean and scalable code practices, and implemented best practices in coding and software testing.
- Developed interactive R Shiny dashboards to visualize and analyze clinical datasets, enabling real-time exploration of patient data and improving decision-making in clinical research.

Software Engineer

Ignite Solutions

Jan 2021 - Feb 2022

Pune, India (Remote)

- Developed and deployed demand forecasting machine learning models for a retail energy provider, reducing forecasting errors and enhancing operational efficiency.
- Conducted big data analysis from MasterCard, resulting in a model that predicts product sales probabilities with an accuracy of 90% in targeted U.S. geo-areas.

- Single-handedly designed and built an internal recruitment portal using Google APIs and Flask, reducing hiring process time by 30%.
- Developed RESTful APIs for a product definition application and conducted routine data analysis, improving service delivery to international clients.

Software Engineer - Intern
Scaler (InterviewBit)

Aug 2019 - May 2020
Bengaluru, India

- Developed and deployed a machine learning-based auto-suggestion tool on AWS EC2 with a Flask backend, reducing query resolution time for 72% of students from 2 days to 13.3 minutes, and created a SQL-powered dashboard to monitor Key Performance Indicators effectively.
- Designed and developed an NLP tool to analyze the content ratio of code to text in TA responses, enhancing student-TA interaction.
- Authored scripts to facilitate the migration of over 1500 students from Flock to Mattermost, optimizing communication platforms.
- Revamped InterviewBit's webpages and created content for Data Science, Machine Learning, and Deep Learning topics, improving educational resource quality.

PROJECTS

Indian Paper Currency Classification - Developed and trained a Convolutional Neural Network (CNN) to identify 7 types of Indian paper currency using images collected from search engines, and deployed the model on Heroku with a Flask back-end, incorporating CSRF protection for app security. ([Try it here](#) • [GitHub](#))

EDUCATION

Bachelor of Technology, Lovely Professional University
Computer Science & Engineering

2016 - 2020
Punjab, India

- **Relevant Coursework** - Data Structures and Algorithms, Database Management Systems, Operating Systems, Software Engineering, Web Development, Computer Networks, Artificial Intelligence, Computer Graphics, Cloud Computing.
- Awarded the Star Student title by the Chancellor in recognition of winning a hackathon competition.
- Collaboratively developed a viral URL shortener application with 3 college peers, hosted on AWS, which gained widespread adoption within the university campus, simplifying link sharing and tracking for hundreds of students.

EXTRA-CURRICULAR ACTIVITIES

- 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

- **Solved 250+** DSA questions on various platforms like Leetcode, Codeforces and Codechef. ([Link](#)) 2024
- **Expert Tier** in Dataset (Top 0.05%) & Notebook (Top 0.07%) category on Kaggle. ([Link](#)) 2024
- **9th Place**, Predict an Ad's Success: Machine Learning Challenge by HackerEarth. ([Link](#)) 2019
- **Top 10**, out of 45+ teams in HaXplore Hackathon in IIT-BHU. 2019
- Participated in IT Hackathon 4.0. in Kota, Rajasthan 2018
- **1st place**, out of 35 teams in Employees vs. Students edition at Infosys Campus 2017
- Participated in IT Hackathon 2.0. in Jaipur, Rajasthan 2017