

# Rudra Desai Software Developer @ Amazon, UK

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#### **EXPERIENCE**

## **a** Amazon – Software Development Engineer

(July, 2022 - Present)

- Contributed in the development and deployment of Amazon's largest IoT Network of 1.5M+ devices
- Orchestrated design of a Test System to expedite Quality Assurance, resulting in a 90% reduction in run-time
- Leveraged event-driven libraries such as Asyncio to concurrently test 100+ IoT devices in one go
- Cross-compiled and ported Python with its associated Linux dependencies to a microcontroller for efficient testing

## Narrato – Product Development Intern

(Jan, 2022 - Mar, 2022)

- Enhanced an AI-based content creation tool to generate 1000+ SEO friendly blogs & articles daily.
- Integrated OpenAI's APIs into 15+ use cases, enabling faster adoption of Narrato platform.
- Troubleshot platform errors in **Django & React applications**, streamlining process operations by 40%.
- Deployed a multi-layered NLP model; achieved 95% accuracy in real-time content evaluation & rating.

# American Express – Security Analyst Intern

(June, 2021 - Jul, 2021)

- Developed a robust API server leveraging Django to deliver critical security reports across internal software
- Assessed 3000+ vulnerabilities, identified true positives, and debugged affected components in production
- Automated go-live processes with Python scripts, which expedited internal library updates in the **Jenkin's CI/CD pipeline** resulting in over **10% time savings**

# Clockout – Back End Developer

(Dec, 2020 - Jan, 2021)

- Developed a Django REST API Server for supporting an android app in production.
- Implemented high-performance real-time messaging support that can manage up to 10K concurrent user traffic using Web sockets.
- Optimized internal APIs to streamline the performance and stabilize load time by 10%.

#### **ACHIEVEMENTS**

• Secured All India Rank 115 out of 240K candidates in Joint Entrance Examination Advance

(2018)

• Secured All India Rank 133 out of 1.1M candidates in Joint Entrance Examination Mains

(2018)

Awarded alumni-funded scholarship covering 100% tuition fees at IIT Madras, based on the JEE Advance performance

(2018)

#### **PROJECTS**

#### NSE Stock Scanner – Personal Project

- Designed a stock scanner for NSE that utilizes user-defined criteria to yield optimal returns
- Created a strategy builder for technical analysis, offering indicators such as BoulingerBands, MACD and RSI
- Built a comprehensive back tester using Pandas and Numpy to track historical performance and fine-tune existing strategies
- Leveraged NodeJS to web-scrape on market data from NSE for archival purposes

#### Snap-n-Solve - Personal Project

- Constructed an automatized solver to generate solutions utilizing photographs of sudoku puzzles
- Utilized canny edge detection and digit recognition model to extract the sudoku instance
- Successfully created the solution with the **backtracking method** in over 90% of cases

#### SimpleFS - Team Project

- Developed a disk-based file system at the machine level for efficient storage and retrieval of files and directories.
- Implemented hard resetting and password protection to guarantee optimal security.
- Engineered 10 essential Linux commands (e.g. ls, cp, mv, etc.) with accompanying documentation

#### **COURSEWORK**

Quant & Finance: Probability & Statistics, Linear Algebra, Accounting & Finance for Engineers, Principle of Economics, Funda-

mentals of Operations Research

Operating Systems, Machine Learning, Deep Learning, Computer Networks, Distributed Algorithms, Database

Management Systems, Computer Architecture

### **EDUCATION**

Computer Science:

Program	Institution	CGPA/PERCENTAGE	YEAR OF COMPLETION
B. Tech. CSE	Indian Institute of Technology Madras	8.81/10	2022
XII Grade	Shivashish Public School	91.4%	2018