

# Ravi Kishan

Backend Software Developer | Work Experience: 3 Years

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## EDUCATION

### INDIAN INSTITUTE OF INFORMATION TECHNOLOGY

Nagpur, Maharashtra | June-2021

B.TECH COMPUTER SCIENCE ENGINEERING

### SHASTRI BAL NIKETAN SECONDARY SCHOOL

Sikar, Rajasthan | May-2017

CLASS XII RBSE

## WORK EXPERIENCE

### HAPPAY (CRED) | SDE 1

Bengaluru, India | Mar 2022 – Present

- Enhanced user experience by developing **drill-down** functionality, **granular charts**, **user session management**, and **user** and **role-based dashboards**. These improvements offered better chart **insights** and significantly reduced the effort required for customers to extract valuable information.
- Implemented **email notification logs** for **AWS Batch** and **data load Lambdas**, automating the monitoring process and reduced manual verification time by **90%**.
- Optimized the Chartist and Detailed Data **APIs** by streamlining database access, removing redundant data from response, and implementing **pagination**, reducing response times from **500-800ms** to **200-400ms**.
- Optimized **AWS cloud ETL batches**, reducing computational time by **more than 4 hours**, leading to a monthly **savings of 120 hours of computational resources per batch**. Achieved this by improving data comparison methods, improving transformation techniques, and eliminating redundant code.
- Implemented **concurrent bulk email and SMS sender** using a **producer-consumer approach** with **AWS Lambda**, **AWS SQS**, and **AWS SES** services. This significantly improved the speed and efficiency of email and SMS notifications. For example, with a **concurrency of 100**, we were able to **notify more than 6,000 users per minute**.

### CLEVERTAP | SDE Intern

Mumbai, India | Mar 2021 – Sep 2021

- Automated user CRUD** (Create, Read, Update, Delete) operations for **Zoom**, **Miro**, and **Slack** using **Terraform**, streamlining administrative tasks and enhancing **user management** efficiency with the **Terraform provider**. Reduced manual effort and time for user management by more than **90%**.
- Completed **AWS Certified Cloud Practitioner** course and gained hands-on experience with essential AWS services, including **EC2**, **S3**, **Security Groups (SG)**, and **Virtual Private Cloud (VPC)**.
- Acquired proficiency in **Golang** and **REST APIs**, including effective **development and consumption of APIs**.

## SKILLS

**Programming Languages:** C++, Python, Golang, JavaScript, HTML, CSS

**Libraries & Frameworks:** Django (including DRF, ORM), Pandas, NumPy, Py mongo, pycogp2

**Tools & Platforms:** Docker, VS Code, Anaconda, GitHub, Jira, Bitbucket

**Databases:** SQL, PostgreSQL, MongoDB, Document DB

**Cloud Services:** AWS - (Batch, Lambda, EC2, S3, CI/CD, Code Pipeline, Code Build, Cloud Watch, SG, SQS), GCP

## PROJECTS

### Text-to-Image Generation Project

Technologies: Django, Python, Celery, Redis, Docker, AWS

- Developed a **text-to-image generation** application using **Django** and **Python**, enabling users to **create images from text descriptions**.
- Implemented **Celery** for **parallel processing** of image requests, significantly improving performance and scalability.
- Utilized **Redis** as a **queue service** to manage task distribution and ensure efficient processing.

- **Containerized** the application using **Docker**, leading to less effort and time to **deploy** the project.
- Deployed the solution on **AWS**, leveraging cloud infrastructure for scalable and reliable hosting.

### FTP - File Transfer Protocol

Technologies: Python, OS Library, Threading

- Designed and implemented a **client-server** file transfer protocol using **Python**, demonstrating expertise in **system-level programming**.
- Developed key features including **file upload, download, indexed searching, and directory navigation**.
- Utilized **Python's OS** and **threading libraries** to handle file operations and concurrent tasks efficiently.

### Ludo Game

Technologies: C++, Logic, Problem-Solving

- Developed a **Ludo game** using **C++**, employing **mathematical** logic and a **pseudo-random** number generator.
- Showcased strong **problem-solving** skills and advanced **proficiency in C++** programming through game mechanics and logic implementation.

### EXTRA CURRICULAR ACTIVITIES

- **Part of Management Team for TantraFiesta:** Assisted in organizing and executing the technical fest at IIIT Nagpur.
- **Seminar Organizer and Speaker:** Led a seminar on Operating Systems.
- **Active Member of Dot Slash Coding Club:** Participated in coding events and activities.
- **Athletics Representative:** Competed in the 800m run, representing IIIT Nagpur at inter-college events.