

# HARSHIL KETAN PATEL

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## Work Experience

### Software Engineer

November 2022 – January 2023

#### Spire Global Inc., Canada

- Developed high-end APIs and plugins in Golang to support data extraction and image processing algorithms using Mapping, Geographic Information Systems (GIS), and Open Geospatial Consortium (OGC) Web Map data.
- Utilized agile methodology for software development, version control and bug tracking.

### Technical Support Advisor

September 2022 – November 2022

#### Concentrix Technological Services, Canada

- Collaborated with clients to provide telephonic support, troubleshooting, and resolving technical issues for direct customers.
- Maintained detailed documentation of customer interactions and technical issues, using this information to improve product offerings and user experiences.

### Backend Developer (Python)

April 2021 – August 2021

#### Haqdarshak Empowerment Solutions Pvt. Ltd., India

- Delivered various backend software development projects, including concurrent APIs and server-based software systems.
- Developed in-house projects to improve organizational efficiency and optimize software solutions.

### Software Engineer

October 2020 – March 2021

#### RecruitNet, Hong Kong

- Developed scalable web scrapers using Python, Selenium and BeautifulSoup to collect and analyze data from various Applicant Tracking System (ATS) websites.
- Utilized data cleaning and data transformation techniques using Pandas and NumPy libraries and performed data visualization using Matplotlib and Seaborn.

### Software Developer Intern

March 2019 – July 2019

#### Infobizzs Services Pvt. Ltd., India

- Followed agile and scrum methodologies in all phases of the software development lifecycle, working collaboratively with cross-functional teams to ensure efficient and effective project delivery.
- Contributed to the development of a video streaming mobile application using React Native, ensuring seamless user experiences across various devices and platforms.
- Designed and developed cross-platform applications for ecommerce functionality using programming languages such as JavaScript and PHP.

## Education

### Master of Science (MS) in Big Data Analytics

May 2021 – August 2022

Trent University, Peterborough, Canada, Cumulative GPA: 90.63 / 100.00

### Bachelor of Engineering (BE) in Computer Engineering

July 2016 – August 2020

Gujarat Technological University, India, Cumulative GPA: 8.81 / 10.0

## Projects

### Image Super-Resolution

Python | Convolution Neural Network

- A module trained to enhance image quality with the help of CNN's and autoencoders. I got validation accuracy of around 93% with a validation loss of 0.0021.

### AI in Retail Market

Python | Django | Machine Learning | Data Analysis

- Project is highly focused on making things easy, reliable, and impeccable for both retail marketers and the customers. Customer's movement is analyzed to gain insight into their habits and buying behavior, which will be

used to optimize the design of the store and the placement of the product. The indoor navigation system will also help customer to track down their product inside the store easily.

### Language Translation Website 🔗

[Python](#) | [Django](#) | [Neural Networks](#)

- A Neural Machine Translation model that converts English sentences to Marathi sentences. The model has been trained over 38,000 sentences and has an accuracy of 90%. I have made it fully functioning by deploying it to the website and have hosted it on herokuapp.

### Face Detection and Recognition 🔗

[Python](#) | [OpenCV](#)

- An OpenCV module which detects a person's face and has an ability to recognize a known person. Also alerts the system if an unknown person has been detected.

### Scanit! 🔗

[Android Mobile Application](#) | [Computer Vision](#)

- Scanit is a mobile application which is used to extract text from an image file which is then interpreted and can be manipulated as per users need. It's also made to perform mathematical operations on a scanned equation.

## Skills

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<b>Programming -</b>	Python, Go, R, JavaScript, Java, Node.js, React, HTML, CSS, PHP, C++, JSON
<b>Databases -</b>	SQL, MongoDB (NoSQL), Postgres, MySQL
<b>Frameworks, Libraries -</b>	Django, Flask, React Native, TensorFlow, Machine Learning, Deep Learning, NLP, Selenium, Scrapy, NumPy, Pandas, scikit-learn, Git
<b>Architectures -</b>	Full Stack Development, Mobile Application Development, Graphic Designing, Web Scrapping, REST API, microservices, Docker, JIRA
<b>OS -</b>	Linux, Windows, macOS
<b>Soft Skills -</b>	Agile, Teamwork, Critical Thinking, self-motivated, Proactive

## Achievements

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- Proven **4-Star Python Coder** at Hacker Rank.
- I have served as a **Design Lead and Logistic Manager at Computer Society of India (CSI)**, GCET Student Branch for academic year 2018-2019.
- Successful freelancer on **Upwork**. 🔗