**Prashant Sengar**

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# Education

**Indian Institute of Information Technology (IIIT)** *Una, Himachal Pradesh* B.TECH. iN COMPUTER SCiENCE AND ENGiNEERiNG *July 2017 ‑ May 2021*

GPA: 9.12/10

# Skills

**Languages & Frameworks** Python, C++, Django, Flask, JavaScript, ReactJS, SQL

**Databases & Technologies** MongoDB, DynamoDB, RabbitMQ, Celery, Firebase, AWS Elastic Beanstalk, AWS Lambda, Git

# Experience

[**Gulpie**](https://gulpie.co/)

[SOFTWARE ENGiNEER INTERN](https://drive.google.com/file/d/1NWmSSDRLCnkpCympZmiCaiN3XHiThtia/view?usp=sharing) *May 2020 ‑ June 2020*

* Designed and developed API methods, focusing on low access time and cost.
* Brought Flask (Python) production API live on AWS Elastic Beanstalk from Google Cloud Platform **to bring a cost reduction of about 20%**.
* Researched and created an Ethereum smart contract for staking, utilized layer 2 solution to **bring down transaction completion time by 90%**.
* Took the responsibility to port API from Python 2 to Python 3, and added functionality to interact with smart contract.

# Projects

**TG Auto** *Python, EC2, DynamoDB*

* Built a Telegram bot to automate processes for businesses, solving scalability issues for **750+ daily users**.
* **DeployedonAWSEC2andusesDyanmoDB** to store user configuration. **EmploysRabbitMQ** as message broker to start long running asynchronous processes on remote machine.
* **Integrated Razorpay API** to collect subscription payments within the bot.

**IndiaShare Android App** *Python, Flask, AWS Lambda*

* Developed the short video, news and file sharing app named IndiaShare with 5,000+ unique installations.
* Built the video streaming API using Flask.
* Created own news API in Python, deployed on AWS Lambda, **cachingwithRedistoreducecostsby95%**. [**iSafe**](https://github.com/prashantsengar/BC74_InsertACoolNameHere)[**(Smart India Hackathon 2020 Winner)**](https://drive.google.com/file/d/1RMa7PJQHUV-GqeDmP7fY9Bdh7A-2z2Kq/view?usp=sharing)*Python, Flask, Django* • Led a team of 6 to build an android application that shows unsafe areas on a map, allows mic and camera sharing, sends SOS to nearby policemen.
* Crafted the APIs and **employed** [**quadtrees**](https://prashants.in/blog/quadtrees-usage-why-what-how-python-code/) **for storage and retrieval** of two‑dimensional data.
* Programmed the admin portal from scratch using Django. Improved the UI of the android application.

[**TakeMeTo**](https://github.com/prashantsengar/takemeto)[**(HackJaipur 2020 Matic Prize Winner)**](https://drive.google.com/file/d/1vFJ2ZkZgThtBZQt7RsuVkJI-JvvRJl1P/view?usp=sharing)*Python, Flask, Solidity, EBS*

* Created an Ethereum ERC20 token staking based alternative to StumbleUpon.
* Developed the smart contract for staking in solidity, deployed on [Matic network](https://matic.network/).
* Coded the RESTful APIs using Flask, **deployed on AWS Elastic Beanstalk**.

# Selected Achievements

* Participated and **led7memberteaminthe**[**ASEAN‑IndiaHackathon2021**](https://drive.google.com/file/d/16Gjh8o-jN8c5_BRk2OL0eAvERT57PBTw/view?usp=sharing), opportunity presented to *top 80 students out of about 1500* Smart India Hackathon Winners.
* Developed several products that are **used by 100,000+ people** worldwide.
* Led the [**Open Source Society**](https://www.youtube.com/channel/UCuUuoynnjcspSE7hxt4mTcQ)of the institute which promotes open source culture among students.
* **Mentored50+studentsastheirprojectmentor**in[*KharagpurWinterofCode*](https://kwoc.kossiitkgp.org/)foropensourcecontribution.