


Parth Verma

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EDUCATION

IIT Kharagpur

Bachelors and Masters (Dual Degree) in Mathematics and Computing

Kharagpur, WB, India

2015 – 2020

EXPERIENCE

Software Engineer

Visa Inc.

October 2020 – Present

Bangalore, India

- As a part of Open VisaNet team, building microservices-based multi-datacenter payment processing applications.
- **Open VisaNet**, is the Next Generation VisaNet, will push the envelope of building highly scalable, secure, cost effective and distributed application on commodity hardware using best-in-class technology components.
- Currently working on a web-based application that provides a single window to perform all kinds of administrative actions on the cluster like upgrading services with zero downtime.

Software Engineer Intern

Visa Inc.

May 2019 – July 2019

Bangalore, India

- Worked on the Application Middleware team, **Open VisaNet** under Network Processing. The team is required to create a microservices based distributed system for VisaNet.
- Created an **auto code generator CLI** for microservices with the developer's requirements- dockerized and ready to be deployed.
- Used Golang, Bash, Jennifer, AST-Parser to generate the service: reduced time from **3-4 days to 5 minutes**

Software Engineering Intern

UnternehmerTUM GmbH

May 2018 – July 2018

Munich, Germany

- Worked in a small team of developers, product managers, designers and with the city department of Munich.
- Created a mobile application to track cyclists in the city of Munich anonymously.
- **Movemint** is a React-Native based app that records the user's every-day routes anonymously to share them with the city to analyze the data and improve infrastructure.

Software Developer

Python Software Foundation, Google Summer of Code

May 2017 – August 2017

Remote

- Worked under mentors from Scrapinghub for the **scrapy** organization.
- Created a benchmark suite - **scrapy-bench** for profiling it's various use cases to identify bottlenecks.
- Improved scrapy's speed by **30%**.

PROJECTS

M.A.R.G | Gold Medal Winner, Inter IIT Tech Meet 2019 | Presentation

December 2019

- An intuitive web application ecosystem for the government, with qualitative visualisations, fund allocation, and record keeping.
- Designed keeping the users in mind - we want them to have an intrinsic motivation to help their locality and the government. We try to incorporate a sense of ownership towards their surroundings using various UI/UX components.
- MARG Ecosystem consists of two components: MARG Dashboard and MARG App.
- Used Python, Flask, React, MongoDB, Azure Vision API.

RedType | 1st Runner Up, Microsoft Code.Fun.Do 2018 | GitHub

November 2018

- RedType is a simple chat system for the victim and rescuer for effective offline communication to aid during natural disasters.
- A Flask-based web application and an Android app that uses Azure Cognitive Services and Twilio API.

Astria | *2nd Runner Up, IIT KGP Inter Hall Open Software Competition* | GitHub April 2019

- A search engine of all Indian constitution articles that supports search, filter and natural-language queries.
- Astria is a web application based on Flask that uses Elasticsearch, Fuse.JS, BERT and Gensim.

Autonomous Dynamic Learning Apprentice System | *Soft Computing Tools* | GitHub Jan - April 2017

- Designed ADLAS to understand, identify and learn a user's set of task performed in a computer using Kohonen map.

Other Projects | GitHub Profile

- Contributor to Elasticsearch, Scrapinghub.
- MobOff: A CLI to download, convert and send YouTube videos to several devices using Pushbullet. | GitHub
- DigiCon: Interface of digitization of medical prescriptions, uses OpenCV and AWS. | GitHub
- EthPhoto: Decentralized Photo Sharing using The Ethereum based Blockchain Platform. | GitHub

TECHNICAL SKILLS

Languages: Golang, Python, C/C++, JavaScript, Shell

Tools and Frameworks: React, React-Native, Android, MySQL, Flask, Docker, Google Cloud, AWS

VOLUNTEER EXPERIENCE

Mentor

Student Welfare Group, GirlsScript Winter of Code and Kharagpur Winter of Code

Kharagpur Open Source Society

In my freshmen year of college, I joined a newly-formed student group to discuss and promote Open Source among all the students of IIT Kharagpur.

We organized workshops, hands-on sessions (Git, Python, Android, Linux etc.), organized seminars for Open Source programs like Google Summer of Code and increased the student participation 4 times in three years. We also created a first of its kind program - Kharagpur Winter of Code to introduce students to programs like GSoC.

Our proudest achievement was to organize an Open Source summit and manage the speakers, talks, workshops and their logistics.

It was attended by 1000+ students. Our team had 15 members. Photos.

ACHIEVEMENTS

- Captain, Gold winning team at Coding Hackathon, Inter IIT Tech Meet 2019, IIT Roorkee.
- Represented IIT Kharagpur at Smart India Hackathon 2020 conducted by the government of India.
- Captain, Bronze winning team at IIT KGP Inter Hall Open Software Competition.
- Runners up in Accenture Innovation Jockeys 2017, Bangalore.
- Runners up in Microsoft Code.Fun.Do 2018.