

# Sourav Ravikumar

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## EDUCATION

### University of California San Diego

Master of Science in Computer Science

San Diego, CA

Sep 2021 - May 2023 (expected)

### Amrita Vishwa Vidyapeetham

Bachelor of Technology in Computer Science, GPA: 4.0

Coimbatore, India

Aug 2015 - May 2019

## EXPERIENCE

### VMware

Pune, India

Member of Technical Staff 2

May 2021 - Aug 2021

- Worked in the Security BU for 2+ years, ensured quality of VMware's security products - AppDefense and CarbonBlack
- Initiated the drive to create inter-operability tests for VMware CarbonBlack against 20 VMware products
- Increased the test coverage from 12% to 86% in 4 months by developing an automation framework from scratch
- Collaborated across 4+ teams to uncover and track critical bugs took ownership to sign-off on releases

Member of Technical Staff 1

Jul 2019 - May 2021

- Saved the company more than \$250K in annual subscription fees to third-party services by building an in-house vulnerability assessment system to identify vulnerabilities on 1M+ customer VMs
- Expanded the system to cover 6 major linux distros and 5 versions of Windows Server OS
- Wrote functional, integration and end-to-end automated tests to cover all paths of the product

Software Developer Intern

Jan 2019 - Jun 2019

- Rewrote and optimized an org-wide internal framework while it was in active use by 50+ engineers
- Enhanced the source-code which deploys virtual firewalls in a cluster - resulting in 20% faster performance

### GE Digital

Bengaluru, India

SDE Intern

May 2018 - Jul 2018

- Optimised the algorithm used for determining the mechanical load on GE Wind Turbines
- Reduced the run-time from 3 hours to 20 minutes by using mathematical minimisation functions
- Contributed in the overall reduction of the turn-around time (almost halved) taken by GE to quote an estimate to the customer

## TECHNICAL SKILLS

- Languages: Python, Java, SQL, Shell, Javascript, HTML
- Methodologies: Microservices, REST APIs, MVC
- Frameworks: Django, FastAPI, Flask, Spring, Pytest, Selenium, OpenCV, Tensorflow
- Database: PostgreSQL, MongoDB, MySQL, Elasticsearch
- Tools: Git, Docker, Jenkins, JIRA

## PROJECTS

### 🐙 GoGetTested - [SITE](#)

2021

Python, FastAPI, AWS, GCP, Computer Vision, MySQL

- Part of the 3-member backend team that designed the architecture, APIs and data models for an online Covid Testing service
- Engineered an automated workflow that handled highly time-sensitive, two-way communications from 5+ diagnostic labs
- Ensured minimal downtime while digitally delivering 5000+ Covid test reports every day

### 🐙 Preflet - [SITE](#)

2020

Python, Machine Learning, Tensorflow, Django, Dask, MongoDB

- Created a platform that automatically trains user data on the most suitable ML algorithm
- Developed a one-stop-shop web-app to visualize and transform data, train predictive models and access them over REST APIs
- Directly helped land the first 2 enterprise clients and deployed the solution on their datacenter

## ACHIEVEMENTS

- Practical Programming content creator on [Youtube](#) with 10K+ subscribers and 2M+ total views
- Received the Best Mentor Award at VMware's Bootcamp Hackathon, 2020 - mentored the winning team of 4 new-grad hires
- Youngest author to publish online courses for professionals and students at [Packt Publishing](#), UK