SAURABH VERMA

Munich, Germany me@saurabh-verma.com

AREAS OF INTEREST

Distributed systems, Artificial Intelligence & Economics.

EXPERIENCE

Senior Software Engineer, Identity Platform | Google Dec 2018 - Present

1. Designed and led Google-wide migrations for accounts storage APIs (1000+ clients, 50M+ QPS).
2. Developed and launched hard-isolation between customers for batch processing infrastructure.
3. Won SVP-level tech-impact award for 2023 for my contributions to live database migration (100M+ QPS).
4. TL for cryptographic assertion of authority for all Google accounts.

Software Engineer, Revenue Platform | Uber Technologies, Inc. June 2017 - September 2018

1. Optimised the storage footprint by 40% to save 150K USD per year in cassandra storage costs.
2. Batched bottleneck network calls by 8x to reduce processing latency.
3. Added support for execution in multiple data-centres and data-centre failover.

Tutor | Chegg April 2017 - June, 2017

Tutored 100+ lessons in various domains in Computer Science and programming assignments.

ACADEMIC BACKGROUND

Qualification	Year	Institution	Grade
Bachelor of Technology (B.Tech.) Computer Science & Engineering	2013-17	Indian Institute of Technology (IIT), Roorkee	8.982

Certifications: Machine Learning, Executive Education in Strategy and Leadership (Harvard Business School)

SKILLS

- **Programming Languages :** Java, C++, Golang and Python.
- **Software Packages:** Tensorflow, Numpy.
- **Software Architectures & Paradigms**: Microservices, REST API design, A/B experiments, databases, batch processing, caching, publish-subscribe, object-oriented programming, agile methodology, integration testing.

PROJECTS & PUBLICATIONS

C++ Algorithm Library | Project link

Collection of my implementations for data structures and algorithms that are commonly used in competitive programming. Some of the highlights are Geometry template, Suffix Arrays, Z-algorithm, Lazy Propagation & Ford Fulkerson algorithm.

Usage Based Tag Enhancement of Images | Pacific-Asia Conference on Knowledge Discovery and Data Mining '17

Proposed a natural language processing algorithm that analyses the usage of an image from its accompanying textual content, extracts image-relevant tags in the accompanying text and then enhances the tags of the image. Built the machine learning model in Python. The output tags were more informative, relevant to the image and diversified in comparison to state-of-the-art image tagging engines.