SIDDHARTH KUMAR

skuma150@asu.edu | +1 480 793 8215 | https://www.linkedin.com/in/siddarth306/ | siddarth306.github.io

EDUCATION

ARIZONA STATE UNIVERSITY

Tempe, Arizona

M.C.S Computer Science

August 2018 - May 2020

Courses: Distributed Software Development, Mobile Computing

VISHWAKARMA INSTITUTE OF TECHNOLOGY

Pune, India

BTech Computer Science and Engineering | GPA: 3.89 / 4

July 2011 - May 2015

PROFESSIONAL EXPERIENCE

VERITAS TECHNOLOGIES

Pune, India

Cloud Software Engineer | NetBackup Cloud Storage Team

June 2015 – June 2018

Project: Distributed Multi-Cloud Storage (Skillset: AWS S3, Python, Java Spring)

- Enable the user to immediately choose and switch cloud providers without any data backup or replication by developing a **distributed multi-cloud storage** which splits data across *n cloud providers* and retrieves data immediately from n-1 providers.
- Presented this project to Veritas's Chief Product Officer (CPO).
- · Received a Veritas Performance Award for innovation.
- Presented a paper on Distributed Multi-Cloud storage at Technical Conference Veritas Illuminate 2017.

Project: Commercial Cloud Services (C2S) simulator of AmazonGov provider (Skillset: AWS SDK, Java, REST Services)

- Subject Matter Expert (SME) of in-house Commercial Cloud Services (C2S) simulator, a private public certificate authentication system of AmazonGov cloud provider for NetBackup users.
- Advised multiple products in setting up the simulator and incorporating necessary code changes for multiple products.
- Received a Veritas Performance Award for **cross product collaborations**.

Project: Data Deduplication Ratio Estimator (Skillset: C++, Java Spring, Deduplication)

- Created a data deduplication ratio estimator by running a sampling algorithm of the data on NetBackup's Deduplication feature thereby helping understand infrastructure needs more efficiently and swiftly by estimating data size (TBs and PBs) pre-deduplication.
- Won a runner up prize for this project at Veritas's Hackathon competition.

Projects: Feature Developments in NetBackup (Skillset: AWS S3, Microsoft Azure Storage, OpenStack, CMCC, Symantec's Open Storage Technology (OST) API, Java Spring, REST services)

- Collaborated to a system which process, track, take snapshots, backup and restore large data sets of different types onto the cloud at a block level.
- Implemented a **proxy support** which would allow storage servers to communicate with the cloud through a proxy server. The proxy supported **SOCKS**, **HTTP** (with and without tunneling) along with a BASIC or NTLM authentication model support.
- Enabled NetBackup storage servers to use **OpenStack cloud storages** by tweaking the backup and restore algorithm to **use OpenStack APIs** when pushing, retrieving or deleting data from the cloud.
- Developed a **simulator** which was used to test NetBackup cloud services for **multithreading issues**. This helped in solving various customer escalations and unearthing various corner cases which were faced by customers.
- 3 Veritas Performance Awards for team contributions, handling customer escalations, cross product collaborations.

QUODEIT (Skillset: Python, Django, AJAX, JavaScript

Pune, India

Co-Founder | Website: https://www.quodeit.com

January 2014 - May 2017

- Developed a **Python** (backend), **JavaScript + AJAX** (frontend) based online assessment platform helps recruiters to ease, automate their technical rounds like multiple choice and coding rounds for IT professionals.
- Quodelt featured in the technical blog TechStory. http://techstory.in/quodeit-prasad-lingawar/
- The company was acquired by **SproutLogix** in June 2017.

NVIDIA CORPORATION (Skillset: C, C++, LLVM, PTXAS Compiler, Perl)

Pune, India

Software Engineer Intern | Capstone Project

June 2014 – May 2015

- Improved the register allocation execution time for **Nvidia's PTXAS** compiler on **Tegra GPU** architecture based mobile devices by 15% for 99.25% of the testcases using a **Partition Boolean Quadratic Programming (PBQP)** algorithm.
- Won a runner up prize at a departmental wide project competition, Prakalp.

OTHER WORK EXPERIENCE

ARIZONA STATE UNIVERSITY (Skillset: Python, HTML5, JavaScript)

Tempe, Arizona

Student Software Engineer | Mobility Analytics Research Group

September 2018 – Present

- Working on the PopGen project, a Synthetic Population Generator project in association with University of Connecticut.
- Improving Python based web application's frontend and backend code base.