Abhishek Bhattacharjee

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GitHub: https://github.com/abhi11 | Website: https://abhi11.github.io/about | LinkedIn: https://www.linkedin.com/in/abhishekbhattacharjee11

Education

University of South Florida, Tampa, FL	Aug 2017- May 2019
Master of Science in Computer Science	GPA: 3.7
University of Pune, Pune, India	Aug 2010 - May 2014
Bachelor of Engineering in Information Technology	GPA: 3.7

Technical Knowledge

Programming: Go, Java, Python, Bash, and C

Databases: PostgreSQL, MySQL, Cassandra, DynamoDB, MongoDB, Redis, TitanDB, ElasticSearch, Prometheus

IDE: Emacs, Eclipse, IntelliJ, Atom, GoLand

OS: GNU/Linux(Debian derivatives), Mac OS X

Version Control: Git, Perforce

Message Queues: RabbitMQ, Kafka, AWS SQS, Redis Pub-Sub

Other Tools: Storm, Docker, AWS services, Heroku, JUnit, TestNG, Ansible

Work Experience

Software Development Engineering Intern, Veritas Technologies LLC, Mountain View, CA May 2018 - Aug 2018
- Developed an analysis engine for Docker container **load balancing** inside Flex Appliance
- Developed the architecture and used **Go**, **Docker**, **Prometheus**, **Ansible**, **BoltDB**, and **REST** based microservices.

Research Assistant, University of South Florida, Tampa, FL Oct 2017 - Present
- Working as a member of the Distributed Systems Group, where area of focus is **Network Science**
- Using **Python**, **SNAP**, **NetworkX, ElasticSearch** for graph representations of social networks to mine information and predict events based on graph structure and dynamics.

Application Engineer, Media.Net (DirectI), Pune, India Jul 2016 - July 2017
- Worked in **Go** and **Java**. Built an event sourcing framework using **Kafka** and **Cassandra** and implementation was in **Go**.
- Built a web service with REST interface for storing and querying high amounts of data using a **graph database(TitanDB)**
- Major responsibilities: **web services**, **microservices** using message queues(**Kafka**, **AWS SQS** and **RabbitMQ**), data modelling.

Web Craftsman(Backend), Betacraft, Pune, India Dec 2015 - Jun 2016
- Go developer, worked on developing **REST** based web services, maintaining and scaling them
- Developed the complete backend of our flagship product AppSurfer.
- Used major AWS services like **EC2**, **S3**, **SQS**, **CloudSearch**, **ECS**, **ElasticBeanstalk**, **CodeDeploy**, **Auto-Scaling** and **Route53**

Associate Software Engineer, Veritas Technologies LLC, Pune, India Jun 2014 - Dec 2015
- Wrote key features in Veritas Resiliency Platform like Migrate, Takeover, Fire-drill for VMware ESX and Microsoft Hyper-V
- Implemented risk detections in the above systems like disk full, low capacity at the DR(secondary) site
- All implementations were in **Java**, used **Perl** for installation and init scripts. Also handled builds for the team using **Maven**

Projects

SocialSim Challenge | Computational Simulation of Online Social Behaviour | DARPA Dec 2017 - May 2018
- Used **ElasticSearch** and **Python** to generate features from a social graph consisting of 24 Million GitHub Users 60 Million repos and 2 Billion historical events, for predictive analysis

Go based job scheduler and executor | https://github.com/betacraft/scheduler Jun 2016 - Jul 2016
- Simple Job scheduler written in **Go** which uses **RabbitMQ** or **AWS SQS**

AppStream/DEP-11 for the Debian Archive | Google Summer of Code 14 | Debian Mar 2014 - Aug 2014
- Implemented a metadata generator in AppStream format for the packages in Debian archive
- Python was used for the implementation and PostgreSQL for the database

Stateful Bolts For Storm | Undergrad Research Project | https://github.com/pict2014/storm-redis Oct 2013 – Mar 2014
- Introduced state in Storm's processing to improve the throughput and benchmarked results.
- Technologies used for the project were Kafka, MongoDB, Redis, Apache Storm and Java