

## WORK EXPERIENCE

<b>Software Engineer, Intern</b>	<b>A9.com (Amazon), Palo Alto, CA</b>	<b>May 2018 – August 2018</b>
<ul style="list-style-type: none"><li>Worked with <i>Amazon Ad Exchange</i> team on evaluating and improving the performance of <i>Amazon Ad Identity Platform</i> which receives 10 billion requests per day.</li><li>Reduced issue investigation time from 2 days to 4 hours by building Ad analytics dashboards using Jupyter on large-scale distributed logs in Apache Hive.</li><li>Built a system using DataSketches, data pipelines, and MySQL to improve HQL query speed by several hours.</li></ul>		
<b>Senior Software Engineer</b>	<b>Sokrati, Pune, India</b>	<b>June 2014 – July 2017</b>
<ul style="list-style-type: none"><li>Implemented a scalable and distributed real-time event processing system using Storm and Kafka - to launch Ads on Google AdWords - which housed 2 million daily events.</li><li>Designed and developed MARS - a monitoring and alerting system using OpenTSDB – a time series database to track advertising metrics such as Click through Rate, Cost Per Click &amp; revenue.</li><li>Improved the performance of systems by 3X by batch processing the data using Apache Storm and Kafka.</li><li>Developed a distributed and config-driven system to attribute video views to Google Ad clicks using MapReduce and Amazon Redshift.</li><li>Built more than 10 web apps using HTML, Backbone.js and wrote various web services using Java, Hibernate, and Spring.</li></ul>		

## TECHNICAL SKILLS

<b>Programming Languages:</b>	Java, Python, JavaScript, C
<b>Frameworks &amp; Technologies:</b>	Storm, Kafka, MySQL, Redis, Android, S3, Node.js, Amazon Redshift, Hive, DataSketches, Hibernate, Flask
<b>Tools:</b>	Android Studio, Vim, Eclipse, SVN, Git, Linux, Jupyter

## EDUCATION

<b>Baltimore, MD</b>	<b>University of Maryland, Baltimore County</b>	<b>2019</b>
M.S. in Computer Science. Coursework: Design and Analysis of Algorithms, Advanced Operating Systems, Advanced Computer Architecture, Service Oriented Computing, Machine Learning, Quantum Computation, Information Theory, Data Science		
<b>Pune, India</b>	<b>Pune Institute of Computer Technology</b>	<b>2014</b>
B.S. in Computer Science. Coursework: Discrete Structures, Data Structures & Algorithms, Programming & Problem Solving, Advanced Databases.		

## PROJECTS

<b>Chuknu – A Smart Sales Assistant</b>	<b>Java, Android, MySQL, Kafka, Storm, Node.js</b>
<ul style="list-style-type: none"><li>Led and developed an android app at <i>Sokrati</i> which is used by 1000+ small and medium businesses in India to manage sales and launch Ads on Google AdWords.</li></ul>	
<b>Nexter – A Personalized Book Recommender</b>	<b>JavaScript, Python, MySQL, Redis</b>
<ul style="list-style-type: none"><li>Developed a chrome extension to recommend books based on user's Twitter data.</li></ul>	
<b>PyMusicFs</b>	<b>Python, FUSE, Redis, Fuzzy Search</b>
<ul style="list-style-type: none"><li>Implemented a Filesystem in Userspace to stream songs via YouTube/Tunefind.com featured in TV shows and movies.</li><li>Achieved 50% improvement in generating a directory structure by leveraging Redis cache.</li></ul>	
<b>WIND (WIND Is Not Dropbox)</b>	<b>Python, Snappy, AES256, S3, FUSE, Berkley DB</b>
<ul style="list-style-type: none"><li>Designed and developed a Filesystem in Userspace to backup files on Amazon S3.</li><li>Achieved a significant space optimization using data deduplication and Snappy compression.</li></ul>	
<b>The Curious Case of Learned Indexes</b>	<b>PyTorch, C, Neural Networks</b>
<ul style="list-style-type: none"><li>Implemented a POC of Google's paper - <i>The Case for Learned Index Structures</i> – which posited that database indexes can be replaced using machine learning models.</li></ul>	

## ADDITIONAL EXPERIENCE

- Organized JavaTar – a weekly speaker series at Sokrati, which sparked discussions among developers on topics ranging from advanced data structures e.g. bloom filters to concurrency frameworks such as AKKA.
- Interviewed more than 150 candidates for the positions of Software Engineer at Sokrati.