

Dhritiman Sagar

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Summary

Software engineer who enjoys challenges of designing and building innovative software solutions. Past experience includes low level infrastructure, distributed backend services, storage and Android.

EXPERIENCE

Snapchat

Venice, CA

June 2016 - Present

Duties and Responsibilities

Working with Lenses, Camera and Research teams to create mobile experiences and interactions.

Vine/Twitter

249 W 17th Street

New York, NY 10011

Nov 2013 - June 2016

Duties and Responsibilities

- Maintained and enhanced Vine's (Python/Flask based) REST API
- Re-wrote internal Vine website for administration and policy enforcement
- Built content identification tools using search, keywords and tags
- Built the backend for reporting, classifying, suspending and reinstating users
- Re-wrote Vine's in-app activity feed and enhanced the framework for push notifications
- Wrote the backend for Vine Milestones
- Prototyped and wrote the algorithm for suggesting "favorite" users based on follow graph and interactions
- Wrote Map Reduce jobs for gathering analytics from haproxy logs
- Re-wrote Vine's stats aggregation and reporting framework
- Built audio timelines feature via audio fingerprinting and search
- Built Sharing-to-External-Networks feature on Android
- Built in-app reporting screen for users, posts and comments on Android
- Prototyped a variety of Vine consumption experiences for Android
- Prototyped, built and released Similar Vines feature on Android
- Used BigQuery and Bime to build and maintain feature related dashboards
- Built experiment analysis tool to judge success of projects and features
- Built Android experiences around discovery on Vine

Bloomberg LP – Feeds Americas

731 Lexington Ave

New York, NY 10022

July 2011 - November 2013

Duties and Responsibilities

- Worked on high speed, concurrent, real-time exchange data parsers
- Worked on building encoders/decoders for C++ FAST/FIX protocol
- Built a mini-framework for writing Java-based feeds using Swig
- Optimized existing C++ data feeds for throughput and speed
- Worked on experimental re-write of Bloomberg's exchange-connectivity libraries
- Worked on concurrency and memory primitives for C++ feeds library

Bloomberg LP – Global Tradebook (Intern)

731 Lexington Ave

New York, NY 10022

June-August 2010

Duties and Responsibilities

- Built service to detect trade order rejects
- Built UI with highly customizable filters for viewing data from service

Amazon.com (Intern)

Seattle, WA

May-Aug 2009

Duties and Responsibilities

- Worked on Amazon's mobile Authentication Portal

Amazon.com (Intern)

Seattle, WA

May-Aug 2008

Duties and Responsibilities

- Worked on Amazon's Global Tax Service

University of Michigan

Ann Arbor, MI

September 2010 - December 2010

Duties and Responsibilities

- Teaching Assistant for EECS 398: Computer and Network Security
- Teaching Assistant for EECS 489: Computer Networks

EDUCATION**University of Michigan**

Ann Arbor, MI

September 2010 - May 2011

GPA: 3.8

Master's Degree in Computer Science Engineering**University of Michigan**

Ann Arbor, MI

September 2006 - May 2010

GPA: 3.9

Bachelor's Degree in Computer Science Engineering**SOFTWARE****SKILLS**

Applications: Android Studio, CLion, PyCharm, Matlab, BigQuery, Bime, XCode

Languages, Frameworks and Concepts: Python, C, C++, Java, Scala (beginner), Flask, Memcache, Redis, Elasticsearch, RabbitMQ, Android SDK, Distributed Systems, Object Oriented Programming, Relational Databases, Distributed Caching

AWARDS

Winner: Vine Hackathon January 2015, January 2016, Bloomberg R&D Rookie of the Year, Graduated Summa Cum Laude, EECS Department Senior Scholar Award, EECS Department Junior Scholar Award