

Sandesh Devaraju

Programmer

CONTACT

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LOCATION

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WORK EXPERIENCE

APR 2016 TILL TODAY

Senior Software Engineer at [Orchard Platform](#):

Orchard Platform is the leading provider of data, technology, and software to the online lending industry.

A composable system (Scala, Postgres) to track performance of the online lending marketplace capable of supporting multiple indexes segmented by dimensions and filters. One such index tracking the performance of direct-to-consumer lending is being made available to the public at <https://orchardindexes.com/>

Secondary marketplace for buying and selling pools of loans supporting multiple deal types: auctions and forward-flow agreements (Scala, Postgres)

JAN 2012 TILL APR 2016

Senior Software Engineer, Optimization Team at [AppNexus](#):

In the context of real-time advertising, Optimization aims to help make smart bid decisions. Worked on a wide array of Optimization problems including Bid Valuation, Budgeting, and Discovery.

Designed and built a streaming architecture (Kafka, Spark, Netty) to dynamically set floor prices at auction-time guaranteeing optimal Publisher RPM

Support transacting on ad viewability, based on an extensible architecture supporting multiple prediction models (Hive, PySpark)

Python implementation of a distributed task queue supporting sharding, aggregation, and dependencies (RabbitMQ, Tornado)

APR 2009 TILL DEC 2011

Software Engineer at [kikin](#):

kikin aimed to bring contextual search into mobile devices via operating system-level integration

- Developed scalable search infrastructure for indexing social media streams (1.5M monthly actives)

- Built an analytics solution for large scale processing and analysis of log data (30GB daily)

SEP 2008 TILL MAR 2009

Engineer at [The Higher Gear Group](#):

CRM tailored to the needs of auto dealerships

- Developed a packaging mechanism for composing software distributions based on CentOS

- Architected a distributed release management and build monitoring tool for continuous integration

JUN 2007 TILL JUN 2008

Software Engineer at [Monitor110](#):

Social media intelligence tool catering to institutional investors

- Developed a system for user-defined persistent searches backed by a distributed, fault-tolerant RESTful service

- Designed a scalable topic clustering algorithm based on semantic similarity

- Formulated a search query DSL supporting boolean, wildcard and grouping operations

JAN 2006 TILL MAY 2007

Research Assistant at [Algorithms Laboratory, Stony Brook](#):

Worked with Prof. Steven Skiena on various natural language processing problems

- Built a SVM based Named Entity Recognizer

- Devised an algorithm to identify and plot temporal interaction graphs of interesting named entities

- Formulated a mechanism for merging temporal databases with bounded sizing

EDUCATION

SEP 2005 TILL MAY 2007

State University of New York at Stony Brook

- Masters: Computer Science

SKILLS

Programming: Scala, Python, Java, Javascript

Analysis: Spark, Pandas, NumPy, SciPy

INTERESTS

Long distance running, Cycling, Leather working