

# Sandesh Devaraju

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## SUMMARY

Seasoned programmer with a proven track record of producing sound technical designs and leading projects to deliver robust scalable software. Strong analytical skills with an ability to thrive in fast-paced collaborative environments.

## WORK EXPERIENCE

### Senior Software Engineer at Serverless

FEB 2019 - TODAY

Building zero-friction development tooling offered as a commercial service complementing the popular open-source framework (with over 39K stars on Github).

Multi-tenant indexing pipeline ingesting over a terabyte of high-dimensional data each day. Relied on by thousands of developers for near real-time application troubleshooting, metrics, and alerting.

CI/CD service optimized for serverless applications and workflows. Being utilized in production by hundreds of organizations performing thousands of deployments each day.

Low latency HTTP+WebSocket event bus implementation supporting batching, querying and webhook delivery capabilities.

### Senior Software Engineer at Juvo

JAN 2018 - JULY 2018

Developing data pipelines analyzing mobile transactions in order to provide financial identity and credit opportunities to the underbanked.

Data ETL with Airflow, Spark, and Kubernetes.

### Senior Software Engineer at Orchard Platform (acquired by Kabbage/AMEX)

APR 2016 - JAN 2018

Developing systems for providing analytical data, technology, and software licensed for use by loan providers.

Composable system for defining indexes tracking performance of the online lending marketplace segmented by various dimensions and filters. One such index tracking performance of direct-to-consumer lending was made available via Bloomberg (quote **ORCHLEND:IND**).

Secondary marketplace for buying and selling pools of loans supporting multiple deal types: auctions and forward-flow agreements.

### Senior Software Engineer at AppNexus (acquired by AT&T)

JAN 2012 - MAR 2016

Building scalable systems to empower data-driven advertising bidding decisions including valuation, budgeting, and discovery.

Novel system for dynamically adjusting reserve price at auction-time guaranteeing optimal publisher revenue. Streaming architecture backing an online machine learning algorithm provided service latency of 20ms and a model feedback loop of 30s (99th percentile).

Scalable prediction engine powering advertiser buying of placements based on the probability of being viewed by a human.

Distributed task queue for processing analytical batch jobs running hundreds of jobs in production daily.

### Software Engineer at Kikin

APR 2009 - DEC 2011

Bringing contextual search to mobile devices.

Scalable search infrastructure for indexing social media streams scaling up to millions of MAUs.

Data pipelines for large scale processing and analysis of log data.

### Engineer at The Higher Gear Group (now Affinitiv)

SEP 2008 - MAR 2009

Building a CRM product tailored to needs of the automobile retail industry.

Packaging mechanism for programmatically composing software distributions.

### Software Engineer at Monitor110

JUN 2007 - JUN 2008

Developing systems for analyzing social media enabling institutional investors with actionable insights.

A system for user-defined persistent searches backed by a distributed service.

Scalable topic clustering algorithm based on semantic similarity.

Custom search query DSL supporting boolean, wildcard and grouping operations.

### Research Assistant at Data Science Lab, Stony Brook University

JUN 2007 - JUN 2008

Worked under the supervision of Prof. Steven Skiena on various natural language processing problems.

## EDUCATION

### Master of Science in Computer Science

SEP 2005 - MAY 2007

State University of New York

Stony Brook, NY

## SKILLS

**Languages** Go, JavaScript, Scala, Java, Python, SQL.

**Analysis** Spark, Pandas, NumPy, SciPy.

**Tools** AWS, Elasticsearch, Docker, Kubernetes, Kafka, Postgres.