

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

Zero-friction development tools offered as a commercial service complementing the popular namesake open-source framework.

Multi-tenant indexing pipeline ingesting ~1TB of high-dimensional data each day. Supports near real-time application troubleshooting, metrics, and alerting.

CI/CD service optimized for serverless workflows featuring preview deployments. 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

Leveraging everyday mobile transactions to open financial opportunities to the world's underbanked population.

Data ETL with Airflow, Spark, and Kubernetes.

Senior Software Engineer at Orchard Platform (acquired by Kabbage)

APR 2016 - JAN 2018

Providing analytical data, technology, and software to the online lending industry.

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

Empowering data driven real-time online 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).

Prediction engine evaluating the probability of a given advertisement placement being viewed. Supports an elastic feature set and scaled to millions of placements.

Distributed task queue supporting sharding, aggregation, and dependencies. Running hundreds of jobs in production daily.

Software Engineer at kikin

APR 2009 - DEC 2011

Contextual search for mobile devices.

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

Analytics solution for large scale processing and analysis of log data.

Engineer at The Higher Gear Group (now Affinitiv)

SEP 2008 - MAR 2009

CRM tailored to needs of the automobile retail industry.

Packaging mechanism for programmatically composing software distributions.

Software Engineer at Monitor110

JUN 2007 - JUN 2008

Social media intelligence tool catering to institutional investors.

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.

SVM based Named Entity Recognizer.

Algorithm to identify and plot temporal interaction graphs of correlated named entities.

A mechanism for merging temporal databases with bounded sizing.

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.