

DHASS THIRUNAVUKARASU

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EXPERIENCE

Whitepages, Seattle — Engineering Lead

April 2017 - PRESENT

- Architect for the website premium.whitepages.com and [whitepages app](#) which has 500,000 active subscribers and millions of visitors everyday.
- Hired and built a stellar team from 1 to 6 engineers and managing a team of 4. Conducted 200+ interviews.
- Designed and developed microservices for data retrieval from third party data providers, payment processing, analytics, mobile backend, authorization and storing user accounts. This serves millions of requests from website and the mobile app.
- Develop and iterate machine learning models to control frauds in the website. Built the model in a month and it is the primary tool to avoid fraudsters from accessing the website.
- Techstack : Python Flask, Postgres, DynamoDB, Spark, ElastiCache, scikit-learn, Scala, React native, Jenkins

Whitepages, Seattle — Senior Software Engineer

April 2016 - March 2017

- Migrated whitepages infrastructure containing 1000+ servers to AWS deployed in Kubernetes from the openstack environment running on a private data center.
- Developed patterns for containerizing 80+ microservices (Scala, Python and Ruby)
- Deployed and developed tools for deploying and accessing Zookeeper, Kafka, Flume and Smartstack.
- Learned a lot about devops and the best practices.

Distributed Systems Lab UMN, Minnesota — Researcher

August 2014 - December 2015

- Multilevel Consistency - Developed multilevel consistency models for NoSQL storage systems for high scalability and low latency.
- Beehive - Researched on distributed Graph processing framework based on global shared memory and MapReduce programming model

D.E. Shaw & Co., India — Senior Engineer

June 2009 - July 2014

- Designed and developed various Java based high performance Hedge fund backend systems.
- Built financial reporting infrastructure, creating data snapshots and exposing APIs using REST & SOAP.
- Developed J2EE based PnL generation web application consuming and aggregating millions of rows of trade.

SKILLS

LANGUAGES : Python, Java, Scala, Javascript, HTML, CSS, SQL, Ruby

SYSTEMS : AWS, Openstack, Kubernetes, Kafka, Thrift, Chef, Ansible, Smartstack, Spark, Zookeeper

FRAMEWORKS : Flask, scikit-learn, J2EE, Play, React Native, Spring, Node.js

DATABASES : PostgreSQL, DynamoDB, Redis, SQL Server, HBase, MongoDB

EDUCATION

University of Minnesota - Twin Cities — MS Computer Science

August 2014 - December 2015, Minnesota, US

PSG College of Technology — BE Computer Science

August 2005 - May 2009, India

PUBLICATIONS

- A Transaction Model for Management of Replicated Data with Multiple Consistency Levels - IEEE BigData 2015, Santa Clara, CA Nov 2015 [[paper](#)]
- A Transactional Model for Parallel Programming of Graph Applications on Computing Clusters - 2017 IEEE Cloud Computing, Honolulu, HI Jun 2017 [[paper](#)]

AWARDS

- Winner Of Whitepages Hackday 2017
- Whitepages Best Employee Award - Recruiting Champion-Talent Rules 2016
- Runners up - AT&T Hackathon Seattle 2016