

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 300,000 active subscribers and millions of visitors everyday.
- Design and develop microservices for data retrieval from third party data providers, payment processing, analytics, mobile backend, authorization and storing user accounts.
- Hired and built a stellar team from 1 to 6 engineers.
- 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, ElastiCache, scikit-learn, React native, Jenkins

Whitepages, Seattle — Senior Software Engineer

April 2016 - March 2017

- Migrated whitepages infrastructure to AWS deployed in Kubernetes from 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, 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