

# Adesh Nalpet Adimurthy

Software Engineer

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Customer-focused and technically-astute Software Engineer skilled in back-end development with three years of experience. Currently pursuing a Master's degree in Computer Science at Dalhousie University, specializing in Big data and Software Engineering.

## Skills

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**Programming languages:** Java, Javascript and Python

**Frameworks:** Dropwizard, Django, Flask, Angular, Ionic

**Databases:** MySQL, MongoDB, AeroSpike, ElasticSearch, Redis, AWS Redshift, Athena

**CI/CD:** Jenkins, Spinnaker, Docker, Terraform, Gitlab CI, Marathon and Mesos

**Other Technologies:** Hadoop-ecosystem, Amazon Web Services, RabbitMQ, Apache Kafka

## Education

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**2021-08 - Current** **Master of Applied Computer Science**

*Dalhousie University - Halifax, NS*

**2013-07 - 2017-08** **Bachelor of Engineering: Electronics And Communication**

*Visvesvaraya Technological University - Karnataka, India*

## Work History

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**2021-12 - Current** **Teaching Assistant and Marker**

*Dalhousie University, Halifax, Nova Scotia*

- Developed lab instructions relevant to the topics covered in the class to put theory into practice in the real world, such as the effect of rounding errors in geometric algorithms.
- Conducted weekly labs and office hours to assist with lab procedures and assignments. Followed by marking the assignments with feedback covering areas of improvement and strengths.

**2019-12 - 2021-07** **Software Engineer**

*PhonePe Private Limited (Acquired by Walmart), Bengaluru, Karnataka*

- E-Nach (Automated Payment Services): Developed the Systematic Investment Plan (SIP) feature to schedule automated payments through E-Nach and UPI mandates or set-up reminders for investments, and handle over 1.2 lakh transactions per day.

- Know Your Customer (KYC) Verification: Rewrote KYC submission state-machine for user identity verification by parsing proof documents such as Drivers License, Aadhar Card, and Bank Statements, along with a selfie video verification which reduced false negatives from 4% to 0.3%.
- Platformization: Built a Dropwizard framework to enable dynamic screens with server-driven UI, thereby taking away the need for frequent mobile application releases and extended the project to facilitate A/B testing.
- User Personalization: Developed a lightweight rules engine to evaluate conditions and execute actions based on user profile and activity, resulting in a ~45% increase in conversion to invest in systematic plan schemes.

## 2018-07 - 2019-12 **Software Engineer II**

*Clear (Formerly ClearTax), Bengaluru, Karnataka*

- Load Test Framework: Developed a framework to capture and replay HTTP traffic at a higher speed in a test environment and published performance results with Grafana and Spinnaker dashboards.
- Parallel Test Framework: Reduced test execution time from 65 minutes to ~14 minutes using Jenkins and AWS Spot Fleet with ANT scripts to aggregate test results, thereby reducing deployment time and cost from \$300 to ~\$20 a month.
- ETL (Extract, Transform, and Load) Pipeline: Set-up a pipeline to combine data across multiple database shards by streaming MySQL bin logs using Kafka and offload data to Hive-on-HBase for Business analytics and reports.
- Database Sharding Bundle: Developed a Java Dropwizard library for application-level horizontal sharding for relational databases, with support for atomicity of transactions, handling nested UnitOfWork and checkpointing.
- Xander: Built a wrapper around simple workflows (AWS SWF) with a decision layer for APIs to be synchronous or asynchronous, primarily to run SQL queries in batches for the enterprise users.
- Licensing as a Service: Developed a service for monetizing and limiting user exploitation of the application utilizing Python Django to float the application and Redis for database caching.

## 2017-11 - 2018-06 **Full Stack Developer Intern**

*Techleet Infosystems, Bengaluru, Karnataka*

## Accomplishments

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- Successfully completed the Dal Innovates Collide - Exploring Entrepreneurship (Mentorship Program)
- Won the "Halifax Innovation Challenge, Extra Mile Award" sponsored by RBC and IBM.
- Certified in "Business Communications for Researchers" by Path2Innovation.
- Rated as 'Exceptional Performer' (July 2020 and April 2021) at PhonePe and 'Out Performer (OP)' in the performance reviews at ClearTax (October 2018 and April 2019).