

# 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

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Excellent

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

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Very Good

Frameworks: Dropwizard, Django, Flask, Angular, Ionic

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Very Good

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

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Very Good

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

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Very Good

## 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 - Algorithm Engineering**

*Dalhousie University, Halifax, Nova Scotia*

- Lab Instructions: Developed lab instructions relevant to the topics covered in the class for graduate and undergraduate students, primarily divided into two sections: algorithm development and analysis.
- Conducted weekly labs and office hours to assist with lab procedures and assignments. Lastly, 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*

- User Personalization and Platformization: Built a Dropwizard framework to enable dynamic screens with server-driven UI, thereby taking away the need for frequent mobile application releases. Extended the project to allow A/B testing and user personalization.
- 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%.

## 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.
- 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 - 2018-07 **Full Stack Developer**

*Techleet Infosystems, Bengaluru, Karnataka*

- Ribbn (Uber for Ambulance): Developed an Ionic-Angular-Django application to book an ambulance and fulfill post-hospitalization services along with location analytics for efficient fleet management and cost optimization.
- Xeta Logistics: Built a logistics billing and goods tracking application with provision for bill generation leveraging Laravel-Angular and Computer Vision techniques for text extraction and redaction of documents.

## **Accomplishments**

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- Currently enrolled in 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).