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

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

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

2022-04 - Current **Teaching Assistant - CS 5308 Software Development**

Dalhousie University, Halifax, Nova Scotia

2021-12 - 2022-04 **Teaching Assistant - CS 6105 Algorithm Engineering**

Dalhousie University, Halifax, Nova Scotia

- 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 Intern

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

- 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).