SANCHIT PRUTHI

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EDUCATION

Masters in Computer Science, *Arizona State University (ASU), Tempe – Arizona*   May 2020

Relevant Coursework: Natural Language Processing, Distributed Database Systems, Social Media Mining, Statistical Machine Learning, Information Security & Assurance, Data Mining, Data Visualization.

SKILLS

Programming Languages   : Java, Python, JavaScript/TypeScript
Technologies & Databases   : Spring, Apache Web Server, Docker, Jenkins, Tomcat, AWS, Hadoop, Spark, Numpy, Maven, Junit, NodeJS, JMeter, Symfony, Scikit, RabbitMQ, MySQL, Postgres, Oracle, Redis

Professional working efficiency in **Japanese**.

PROFESSIONAL EXPERIENCE

Software Development Engineer – *Amazon Connect - Amazon Web Services, Seattle - WA*   July 2020 – Present

(Skillset: Java, TypeScript, AWS - Lambda, IoT, SQS, SNS)

- Preventing rollback and deployment failures by strategically sweeping old lambdas versions. This led to smoother and fast deployments of features and services to customers.
- Design and development of per client throttling for Amazon Customer Service Center. This change prevents noisy neighbor problem and underlying service from abuse to ensure maximum uptime.
- Confidential Project – Based on AWS IoT, Lambda, Cognito, SQS, SNS. (In Progress)

Research Assistant – *Cognitive Information Processing Systems Research Lab, ASU*   Feb 2019 – May 2020

(Skillset: *Python, Machine Learning, Natural Language Processing, Hadoop Spark, Data Mining, Elastic Search*)

- Users community detection, shift analysis, bot influence and scaling. (Time series data)
- Analyzed to detect attractive and repulsive factors influencing user/communities shift, polarization and moderation towards topics/organizations.
- Preprocessing of time series data to extract name entities, sentiments on 350GB of tweets.
- Intelligent automatic tweet and reply (for users/communities) generations using attractive and repulsive factors.

Senior Software Engineer & API Lead – *Rakuten Inc., Tokyo*   Sep 2016 - Aug 2018

Project: Rakuten Brand Avenue - Website Speed-up & Renewal

(Skillset: *Spring Boot, Spring Security, Oracle, MySQL, RabbitMQ, Memcached, Redis, Docker, Jenkins, Gatling*)

- API Lead of an 8-member team following Scrum & Agile methodology.
- Reduced website response time by **3x** by redesigning and developing the entire RESTful based API backend and microservice based architecture with advanced caching, batch processing and optimized computation layer.
- Made consolidated dashboard for monitoring, logging, alerts, error tracking using **Grafana, Mola,** and **Sentry.**
- Built **CI/CD** pipeline using **Jenkins** and Stress Testing done using **Gatling**.
- **Second Prize,** Rakuten Award – Best Project. (Company wide)
- Net Positive Score(NPS) increased by **3.2%**, Gross Monthly Sales(GMS) increased by **5.7%.**

Project: New Backoffice System   (Skillset: *Spring Boot, MySQL, Informix, ActiveMQ, Bootstrap*)

- Led a team of 4 people to develop a new portal for merchants.
- The portal enables merchants to upload & manage products, dynamic deals & coupons.
- The tool helped to decrease product processing and market release time by **65%**.

Winner – Rakuten Hackathon, Rakuten Inc.   Nov 2017

Software Engineer & Technical Lead – *Hikari Tsushin Inc., Tokyo*   Oct 2014 - Aug 2016

Project: End to End Customer Life Cycle & Inventory Automation   (Skillset: *PHP, Symfony-silex, MySQL, Agile*)

- Led a team of 20 Engineers for a 4-step automation and digitization process of Customer Life Cycle & Inventory.
- Introduced online contract approval, digital seal, invoice generation & processing, monitoring of running costs.
- Reduced annual operation cost by **80 Million Japanese Yen ($800,000)**.

Co-founder: BlackNoise.in – *India*   Feb 2012 - Jun 2014

- The web application digitized and published verified course content for all courses taught at Thapar University.
- Lead UI & Web Developer and responsible for recruiting younger talent to the team.
- The capability of the idea topped by its effective implementation got 2.3+ million hits from 5,000 students in an year.

RESEARCH & ACADEMIC PROJECTS

Event 2 Mind – *Natural Language Processing, ASU.*   Fall 2018

- Commonsense Inference on Events, Intents, and Reactions. Reasoning about the mental states in relation to events.
- This is an extension of the Allen NLP's research.

Geo Spatial Analysis of Temporal Data - *Distributed Database Systems, ASU.*   Spring 2019

- Performed a geospatial data analysis on a multi-cluster Hadoop file System using Apache Spark and GeoSpark on NYC taxi trip dataset for hotspot detection using Getis-Ord metric.