Gaurav Sharma

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SUMMARY

Energetic software engineer with 2 years of experience in development of large scale java applications. Increased efficiency of the team and saved around $140,000 annually for TCS. An enthusiastic team player and a creative thinker.

EDUCATION

- **Rajeev Gandhi Technical University** — India
  Bachelor of Engineering in Information Technology — CGPA - 7.9

PROGRAMMING SKILLS

- **Technical Skills**: Java, SQL, Android, Shell Scripting, Linux, Data Structures, Algorithms, Operating Systems

EXPERIENCE

- **Tata Consultancy Services** — Noida, India
  Systems Engineer — October 2016 - Present
  - **Walgreens**: Worked on Point of Sale's Desktop application and on the following projects.

    * **Manual Entry of Cards**: This project aimed at allowing manual entry of EBT & eWIC cards at POS instead of swipe or tap. This was to improve the customer experience as these cards are printed with low quality magnetic strip.
      - Created an entirely new UI Framework for dynamic validation of card number, improving UX.
      - Improved card processing by 8 times.
      - Created a framework for tendering manually entered cards

    * **System Encryption Switch**: This project aimed at switching the system to a new Encryption Technology and pruning the codebase for old code. HPE's FPE(format-preserving encryption) allowed easy integration with older systems .
      - Implemented HPE Voltage Encryption for the platform.
      - Pruned the codebase to remove RSA Encryption.
      - Implemented SHA256 hashing (with salt).

    * **Rx Express Pass & Home Delivery**: This project aimed at introducing a new payment method at Point of Sale which allows a customer to buy prescriptions in the comfort of their home.
      - Implemented a framework for tendering of a credit card linked with a pass.
      - Implemented Rest Web Service client(s).

    * **Optum Orange Card**: This project aimed at introducing a new card for tendering and discounts.
      - Implemented a framework for tendering of a Optum Card.
      - Implemented a framework for discounts offered by Optum Card.

    * **Utilities**: These are the utilities I created to improve team's workflow.
      - **Fsync** - A backup script that leverages git to backup only the deltas of code/documents to a persistent storage.
      - **AutoGit** - A shell script that sets up the codebase. Saves 80k dollars per year.
      - **SetUpMyVDI** - A multi-process plugin script framework. Custom plugins help in setting up the environment.
      - **Brownie** - A script that automates many database tasks. Saves 40k dollars per year.

SIDE PROJECTS

- **Rest-lambda** *(Java, spring boot, JS)*
  - A Spring-Boot web app that converts any script/program into a rest web service. This project is now used in Walgreens's POS chainwide (8400 Stores) and handles L2 Support requests.

- **Lookup** *(Java, Android)*
  - An Android Application with 98,000+ downloads that allows users to search meanings quicker with popup definitions and usage of words. It uses FTS4 for predictive search and The Porters stemming algorithm for word root extraction with Levenshtein distance calculation for ranking and prediction.

- **Smart-Search** *(Java)*
  - A predictive search API that gives you the freedom to search on millions of entries in a database with ease. A combination of Full Text Search, Ranking and Stemming to give you the best output for your android application/Application using SQLite3.

- **AlphaCode** *(Java, Servlets & JSP, HTML & CSS)*
  - Alphacode is an online judge with support for C, C++ java. It uses JAVA and Linux (Shell Scripting) as backend and HTML, CSS, JavaScript as the frontend. MySQL5.6 was used as the database and Tomcat8.0 as the Web Server.

ACTIVITIES

- **Awards**:
  * Technical Excellence Award in Feb 2018
  * 3 On The Spot Awards in Jun 2017, Oct 2017 & Jun 2018
  * Applause award in Jun 2018