# Vikas Prasad

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## EDUCATION

- **Institute of Technology and Management (ITM)** — Gwalior, India
  *Bachelor of Engineering in Computer Science; CGPA: **7.63**/10.00* — *2011 - 2015*
    - 1$^{st}$ Division with **Honours**
- **K.G. Children Higher Secondary School** — Gwalior, India
  *Physics, Chemistry & Maths; **84.6%*** — *2011*
    - **1$^{st}$ Division**
    - **Distinction** *in all subjects except one*
    - Selected for Central Sector **Scholarship**

## EXPERIENCE

- **Fyle** — Bengaluru, India
  *Member of Technical Staff* — *Jan 2018 - Present*
    - **Notifications & Reminders**: Led this module. Led AMP reply to comments feature, email service and delayed emails feature.
    - **MIS-Analytics**: Led this module. Developed GD service from scratch. Created big fat **Postgres** materialised view(**180+** columns; **30+** joins) for mis and analytics purpose around expenses. Later, switched to custom refresh mechanism(on normalised tables) bringing refresh time down from **55 mins to 30 sec**; **100x+** improvement. Adapted the same solution for other objects like reports, payments. Designed analytics support for various kinds of charts. Designed and led many other subsequent services/features/improvements. Used **Flask**, **Python**.
    - **Jobs Infrastructure**: **https://engineering.fylehq.com/engineering-guide-to-food-truck/** End to end development of a background job processing framework. Used **APScheduler**, **RabbitMQ**, **Celery**.
    - **Accounting Exports**: Extended existing service to support any new integration in a generic fashion. Added Netsuite, SunGL and GEFU integration using this generic support. Added support for **QBO** locations & classes. Even worked on JavaScript. Constantly **maintained** and **supported** one top QBO using customer.
    - **Others**: Apart from above, led and developed many other features/services. Also enforced **good practices** and **initiatives** like using editorconfig, BugsNPizza etc. Was also actively involved in engineering **hiring**(seen the company grow from 9 to 90 members in around 2 years), and briefly involved in handling **production deployments** and **customer success** on bugs front.

- **Infosys Limited** — Mysuru & Bengaluru, India
  *Systems Engineer* — *Dec 2015 - Dec 2017*
    - **Connected Car Platform (CCP)**: Developed **Notification** and **Vehicle Locator** services from scratch. Used **Spring**, **Java**, **mongoDB**, **twilio**, **SendGrid**, amazon web services: **Amazon SES**, **Amazon SNS**.
    - **Digital Oil Field (DOF) Phase 2**: Worked on UI of a POC that allows users to manage Oil Fields digitally under the Internet of Things **R&D** team. Added functionality for saving custom plots. Added separator views.
    - **Telstra Mock Project**: Developed telecommunication website with user/admin functionalities and pdf bill reports support. Used Spring, Java, H2 database for **RESTful** APIs. AngularJS, Bootstrap, Google Charts for frontend.

- **Free and Open Source Software for Education (FOSSEE), IIT Bombay** — Internet
  *Intern* — *April 2015 - May 2015*
    - **Textbook Companion Programme**: **http://tbc-python.fossee.in/book-details/502/** Contributed in creating reference material for the book **Data Structures** & **Algorithms Analysis**. Received honorarium.

## PROJECTS

- **https://platform.hasura.io/hub/projects/viaksprasad/zapier-backup**: Upload to Hasura with Drive backup.
- **https://github.com/viiicky/Intro-to-Inferential-Statistics**: Detailed analysis on Haberman's Survival Data Set.
- **https://github.com/viiicky/Intro-to-Descriptive-Statistics**: Conducted an experiment using a deck of cards.
- **JRail**: Training with **A** grade; JRail is a railway application with many functionalities. Added concession feature.
- **PyPedia**: Training with **A** grade; Users could create, edit, search & read various topics. Could invite other users too.
- **Airline Reservation System website**: PHP training with grade **A+**; Developed backend. Handled database.
- **OH! HELL**: Minor Project; A Windows 8 store - cards based game, popularly known as 'Lakdi' in India.
- **Code Combat**: Won the coding competition in college annual function.
- **BRICKS**: A graphics game in C language which requires user to break all the bricks without losing the ball.