Ankush **Menat**

SOFTWARE ENGINEER

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Summary

An ambitious result-driven engineer, lifelong learner, generalist and a programmer with ability to quickly adapt to new fields. My core areas of interest are software engineering, "backend" development and systems programming.

Work Experience

Frappe Technologies
Remote / India

ENGINEERING LEAD
Jan. 2021 - Present

- Lead Maintainer of Frappe Framework - a low code framework for building business apps like ERPNext. Used by giants like Zerodha.
- Achievements:
  - 35% memory usage reduction by tweaking worker architecture and profiling - blog post.
  - ~60% reductions in request overheads.
  - Worked on solving several scalability problems in Frappe and ERPNext.
  - Improved code coverage from 50% to 70% with the team.
  - Developed deep knowledge of Python language and the ecosystem.
  - Automated release processes to move from monthly to weekly release cadence.
  - Worked on Growth Engineering to reduce drop-off from sign-up and onboarding.
  - One of the top active members in the FOSS community around our products.
  - Reviewed 1300+ pull requests, a significant majority of which is from open source community.
- Technologies: Python, SQL, JavaScript, MariaDB, PostgreSQL, Redis, RQ, SocketIO, Frappe Framework.
- Nearly 100% of my work output at Frappe is open source and can be found on my GitHub profile.

Godrej Precision Engineering - Godrej & Boyce
Mumbai, India

SR. EXECUTIVE - ESTIMATION ENGINEER (MECHANICAL ENGINEERING)
Aug. 2016 - Jan. 2021

- Responsible for estimating cost of multi-million dollar projects in Nuclear power and Defense sector. Customers include Indian defense organizations, Department of Atomic Energy and International organizations like Thales, Alstom and Israeli defense contractors.
- Improvements:
  - Implementation of Monte Carlo simulations for quantitative risk assessment and competitive bidding.
  - Automatic data extraction from 3D CAD data using VBA scripts.
  - Statistical analysis on cost data for creation of Cost Estimation Relationships (CERs)
  - Training the team and new members on Advance Excel uses.
  - Overall improvements resulted in saving of thousands of manhours every year.
- Studied Computer Science part time to transition from Mechanical Engineering.

SciTech Centre, ACG Worldwide
Mumbai, India

MECHANICAL DESIGN ENGINEER (INTERN)
June 2014 - Nov. 2014

- Worked with team of experienced mechanical engineers and designers on development of PROTAB tablet press machine.
- *Project:* Design of doors with locking gas spring for PROTAB machine, modelling of aesthetic sheet metal covers for PROTAB machine.

Skills

Programming	Python, SQL, Shell, JavaScript, Rust, C/C++ (from highest to lowest proficiency)
Technologies	Backend development, Web Frameworks, Linux, MariaDB, Redis, ERP, "Low-Code"
Tools	GNU/Linux CLI, (Neo)Vim, Git/GitHub, LaTeX, spreadsheets
Languages	English, Gujarati, Hindi and Marathi (elementary)

Education

BSc (Hons) Computer Science
London, UK (Online)

UNIVERSITY OF LONDON
2019 - 2022

- Online degree in computer science with hundreds of diverse students spread around the world in more than 120 countries.
- Organized Journal Club where students read and discuss technical research papers in computing.

Diploma in Mechanical Engineering
Mumbai, India

SHRI BHAGUBHAI MAFATLAL POLYTECHNIC
Aug. 2012 - June 2016

- 4 year Diploma with 1 year of internship in Industry.
- Equivalent or better than Associate's degree in Mechanical engineering.