

Ankush Menat

Software Engineer

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EXPERIENCE

Lead Software Engineer

Jan. 2021 – Present

Frappe

Remote

- Lead Maintainer of Frappe Framework - a low code framework for building business apps like ERPNext.
- **35% memory usage reduction** by tweaking background workers and optimizing code. ([blog post](#))
- Around **60% reductions in request overheads** and major reductions in resource usage. ([conference talk](#))
- Worked on solving several scalability problems in [Frappe](#) and [ERPNext](#).
- Wrote **automated SQL query optimizer** for developers to quickly find and optimize slow queries.
- **Reviewed 1500+ pull requests**, a significant majority of which are from open-source community.
- Improved test coverage from 50% to **70%** with the team.
- Screening, interviewing, hiring and onboarding new engineers.
- Resolve 30+ critical security vulnerabilities and performed security audits on multiple company codebases.
- Refactored several core subsystems for improving maintainability and stability of the Framework.
- 100% of my work output at Frappe is open source and can be found on my [GitHub profile](#).

Mechanical Engineer

Aug. 2016 – Jan. 2021

Godrej Precision Engineering

Mumbai, IN

- Estimating cost of multi-million dollar projects in Nuclear power and Defense manufacturing.
- Pre-sales/pre-bid activities, negotiations and budgeting for projects.
- Automatic data extraction from 3D CAD data using VBA scripts.
- Statistical analysis on cost data for estimating costs.
- Training the team and new members on Advanced Excel uses.
- Overall improvements resulted in savings of thousands of man-hours every year.

Internships

Part of Mechanical Engineering Diploma

Total Tools

Dec. 2015 – May. 2016

- A mediocre internship that shaped my life. This is roughly where my programming journey began. ([blog post](#))

ACG Worldwide

Jun. 2014 – Nov. 2014

- Prepared CAD models and manufacturing drawings for the ProTab tablet pressing machine using Solid Edge.

EDUCATION

Georgia Institute of Technology

Remote

MSc Computer Science, Computing Systems

2024 – 2027 exp.

University of London

Remote

BSc Computer Science, First Class Honours

2019 – 2022

Bhagubhai Polytechnic

Mumbai, IN

Polytechnic Diploma, Mechanical Engineering

2012 – 2016

EXPERTISE

Skills: Technical Leadership, Performance Optimization and Scalability, Debugging, Systems Programming, FOSS maintenance, Databases, Code Reviews, Automated Testing, SAST, Continuous Integration, Security, Technical Writing

Languages: Python, C, C++ (17), Rust, SQL, JavaScript

Technologies: MySQL, PostgreSQL, Redis, SocketIO, Sentry, Multi-tenant SaaS, Linux

Tools: Shell, Git, GitHub, NeoVim, Spreadsheets, tmux, i3, Docker, GDB, make

SELECTED PUBLICATIONS

["Reducing Memory Footprint of Frappe Framework"](#), Frappe Engineering Blog.

["Solving Concurrency Bugs Using Schedules and Imagination"](#), Personal Blog.

["If You Wish to Truly Understand Frappe's Scheduler, You Must First Invent the Universe"](#), Frappe Engineering Blog.