# Saumya Prakash

Software Engineer at KLA | IIIT DM Kancheepuram Alumnus

## CONTACT DETAIL

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## TECHNICAL SKILLS

**Programming language**:
C#, C++, C++/CLI
**Software & Frameworks**:
.NET framework, ASP.NET, Angular, gRPC, REST, NUnit
**Database**: SQLite, SQL
**Platform**: Linux, Windows
**Others**: GIT, Azure DevOps

## CORE COMPETENCIES

- Software Architecture Design
- Agile Methodologies
- Performance optimization
- WBS (Work Breakdown Structure)
- Design for Testability

## SOFT SKILLS

Team work
Adaptive
Quick Learning
Detail-oriented
Time Management

## EXTRACURRICULAR ACTIVITY

- Secured the First prize in the Robotics Competition (college fest) at Samgatha in 2018.
  *[Arduino UNO, C]*
- E - yantra (IIT Bombay) Inter-college competition
  [**Image Processing, python**]

## INTERESTS

- System Design
- Backend Development
- Travelling
- Esports
- Photography

As a qualified MTech. professional with over two years at KLA, I have enhanced and maintained sophisticated software products by adding features and resolving issues with a skilled engineering team. My passion for software engineering drives continuous learning, professional growth, and innovation within a dynamic, growth-oriented environment.

## WORK EXPERIENCE

### Software Engineer | KLA, Chennai | Jul'22 - present

- **Software Development and Maintenance**
  o Enhanced and maintained software for multiple product lines using .NET Framework, C#, and C++, ensuring robust performance and reliability.
  o Collaborated with various subsystem teams to implement new features with TDD.
- **RUN Infra Changes**:
  o Transitioned legacy operation-based DAG to a C# workflow task-oriented system.
  o Ported WPF UI to support new infrastructure and systems.
  o Enhanced maintainability, scalability, and reduced tech debt, simplifying testing.
- **Transforming the Code**:
  o Refactored a major component responsible for reading and saving data in the file system.
  o Applied composite, singleton, and template design patterns.
  o Reduced code from 120+ lines to 5 lines.
  o Improved code maintainability, reusability, performance, scalability, and readability.
- **Build Optimization**:
  o Achieved ~98% optimization in build time.
  o Solved manual patch generation issues.
  o Reduced build time from ~60 minutes to ~45 seconds using git, scripting, and CI build machines.
  o Saved ~160 developer days/year.
  o Automated patch creation saved ~108 hours/year.

## INTERNSHIP

### Software Engineering Intern | KLA, Chennai | Jan22-Jun22

I contributed to the project by porting and rewriting legacy unmanaged code to managed C# for a major component used in the MainUI for reviewing results. [C#, .NET Framework]

### Software Engineering Intern | KLA, Chennai | May21-Oct21

Created a dashboard for the developer to check the encrypted dump file which was created due to software crash and make the param change to retry the job run. [C#, .NET, Angular, c++/CLI, gRPC]

## ACADEMIC QUALIFICATION

- Master's and Batchelor's in Computer Engineering from IIIT DM, Kancheepuram in 2022 with 8.5 CGPA
- 12th from Doon Public School, Patna
- 10th from DAV Hehal, Ranchi