

ATUL FRANKLIN ABRAHAM

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SUMMARY

Graduate student in Computer Science at Stevens Institute of Technology with a background in quality engineering, process improvement, and data-driven problem-solving. Experienced in Python, Java, SQL, and application development, with hands-on experience building cross-platform applications and financial technology projects using Flutter, Dart, and Firebase. Interested in opportunities across financial technology, trading systems, software engineering, and quantitative applications where I can strengthen and develop my technical skills.

SKILLS

Programming & Scripting: Python, Java, SQL, HTML/CSS, Google Apps Script, Prompt Engineering

Tools & Platforms: Flutter, Firebase, Git, Microsoft 365, Google Workspace

AI & Development: AI-Assisted Development, Prompt Engineering

Software & Methodologies: Application Development, Agile, UI/UX Design, Quality Management

Professional: Analytical Problem-Solving, Data Handling, Technical Documentation, Cross-Functional Collaboration, Leadership

EDUCATION

Stevens Institute of Technology, Hoboken, NJ

Master of Science in Computer Science

September 2026 - May 2028 (Expected)

Vellore Institute of Technology, Chennai

Bachelor of Technology in Mechanical Engineering

July 2021 - July 2025

WORK EXPERIENCE

Whirlpool Corporation, Pune

Intern - Cost & Quality & Product Development

March 2025 - September 2025

- Automated the bill of materials (BOM) tracking for component and material pricing in the organization using a Google Apps script, reducing monthly maintenance requirements and worktime required for BOM management by more than 50%
- Led successful implementation of corrective actions, reworks, and validation testing with a focus on lean principles, risk mitigation, and continuous improvement
- Coordinated cross-functional project management activities, enhancing operational efficiency; coordinated cross-functional teams for projects, aligning all stakeholders and obtaining necessary approvals to drive project success; and organized and facilitated key meetings with process teams, quality leads, and management for budget planning, ECR processes, and safety audits. Managed detailed communication and collaboration with marketing, process, and quality teams, supporting budget planning and audit readiness

Motherson Automotive Technologies & Engineering, Chennai

Trainee Intern - Quality Control Department (Exports)

August 2023 - September 2023

- Actively monitored production operations to ensure adherence to quality control standards, gained insight into production and operations planning, and developed an understanding of resource allocation, lean kaizen principles, risk assessment, and operations management strategies within the Quality Control Department.

PROJECTS

Trade on Paper: Paper Trading Simulator for Indian Markets || Flutter, Dart, Firebase (Android)

- Built a paper trading simulator for NSE/BSE equities and F&O with 5x intraday leverage, margin tracking, and auto square-off
- Engineered a Yahoo/Stock/NSE data fallback chain and a Black-Scholes option chain with delta, PCR, and max pain
- Developed an automated scalping engine with RSI/volume confirmation, tick-based reversal detection, and daily stop limits

Productivity Plus: Cross-Platform Productivity Suite || Flutter, Dart, Kotlin (Android and iOS)

- Built 8 integrated modules - Kanban, day planner, habits, sleep, expenses, reminders, timelines, routines) with calendar views
- Designed the UI/UX - reusable widgets, light/dark themes, drag-and-drop Kanban, swipe-to-complete planner, and haptics
- Built interactive fl_chart analytics (line, bar, pie, scatter) for sleep, habit, and expense trends with selectable time ranges

Design and Analysis of Polymer Composite Spur Gear || Capstone Project

- Led design and evaluation of polymer composite spur gears from concept to real-world implementation

Analysis of Crash Test of Car Body using Ansys Workbench

- Developed a 3D CAD car body using SOLIDWORKS and conducted FEA simulations in ANSYS Workbench to determine failure zones and evaluate structural integrity
- Tested multiple materials, including stainless steel and aluminum, to analyze their impact on structural performance

CERTIFICATIONS

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|---|---------------|
| Java Fundamentals Course for Beginners by Udemy | February 2025 |
| Python Programming: Python Bootcamp for Beginners by Udemy | December 2025 |
| Building AI Solutions Using Advanced Algorithms and Open Source Frameworks by IBM | October 2024 |
| Getting Started with Enterprise Data Science by IBM | August 2024 |
| Getting Started with Enterprise-grade AI by IBM | August 2024 |
| Six Sigma White Belt Certification | July 2024 |
| Advanced C++ by Indian Institute of Technology, Bombay | February 2022 |
| Python 3.4.3 by Indian Institute of Technology, Bombay | February 2022 |