

# ATHUL THULASIDASAN (he/him/his)

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## EDUCATION

### Boston University

Master of science in Computer Science

Boston, MA

Expected Jan 2026

- IT Support Specialist at Desktop Support, Service Desk, Learning & Event Technology Services and Client Technology Services for Boston University IT Help.
- Relevant Coursework: Big Data Analytics, Web Mining and Graph Analytics, Adv. ML, Adv. Database Mgmt.

### Pillai College of Engineering

Bachelor of technology in Computer Science

Mumbai, India

May 2023

- Technical Secretary @ Student Council, Technical Head @ Alegria 2022, Student Development Committee

## RELEVANT WORK EXPERIENCE

### Multiflex

Contract Software Developer

Mumbai, India

Jan 2024 - Sept 2024

- Engineered an internal web application using Next.js, Python, REST APIs to streamline custom furniture design and production workflows **diminishing manual processing by 50%** ensuring seamless communication between customer, design and production teams.
- **Partnered with executive leadership** to gather requirements and fine-tune features, ensuring application met company's specific needs **across 5+ business units**.

### COTDS

Freelance Software Developer

Mumbai, India

Mar 2023 - May 2023

- Advised clients on Software design, **redesigned database and ETL logic**, improved code inefficiencies, increasing performance by **250%** while reducing code size by **80% LOC**.
- Migrated application from JavaScript to **TypeScript**, achieving **100% type safety** and improving maintainability.

### Alegria

Software Developer Intern

Mumbai, India

Nov 2021 - April 2022

- **Led a 13 member Web and App team** to create website and mobile application for Alegria, one of biggest college festivals in Mumbai with **50,000+ visitors every year**.
- **Automated RESTful API testing** in cloud computing environments using Python, JavaScript, and Postman; integrated into the build pipeline to ensure zero breakage in the system.
- Integrated Razorpay payment gateway with web-hooks for real-time transaction updates, **eliminated manual cash handling** and reduced payment processing time to **near instant**.

### LA Group

Software Engineer Intern

Mumbai, India

Aug 2021 - April 2022

- Refactored REST APIs, optimizing SQL with DB profiling, and implementing multi-level caching, leading to **5x faster API responses** and a **10x faster in React page load times**.
- Optimized mass calculation logic with **memoization and caching**, reducing execution time by over **55%**.
- Migrated data storage from Excel file handling to **MySQL**, reducing 'import from excel' time by **67%**.

## ACHIEVEMENTS AND PUBLICATIONS

- **Winner**, 'Science and Society: Science Advocacy for Public Health Hackathon' organized by GWiSE NEU.
- **Led a 10-member technical team** to plan and execute **13 workshops and 6 events**, for **1,500+ participants** at one of Mumbai's largest college festivals, Alegria.
- **Conducted expert-level sessions** on **TRPC, Rust, Machine Learning, Flask, and DevOps** at community meetups and technical events, engaging a **median audience of 80+ participants**.
- **"Determination of Medicinal Leaf Properties"**, Int. J. of Scientific Research, Apr 2023. DOI: 10.55041/IJSREM19036

## SKILLS AND INTERESTS

- **Languages:** Python, JavaScript, TypeScript, C++, Golang, SQL
- **Cloud & Systems:** AWS, GCP, Docker, Kubernetes, Kafka, Hadoop, Spark, Microservices Architecture, CI/CD Pipelines
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis, NoSQL
- **Frameworks & Libraries:** React, Next.js, Node.js, Express, Flask, REST API, GraphQL, gRPC