

ABHISHEK SANTOSH REVADEKAR

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EDUCATION

STONY BROOK UNIVERSITY

Master of Science in Computer Science | Cumulative GPA: 3.57/4.00

Coursework: Operating Systems, Natural Language Processing, Introduction to Computer Vision, Probability & Statistics.

Stony Brook, New York

Expected Dec. 2023

UNIVERSITY OF MUMBAI

Bachelor of Technology in Computer Science | Cumulative GPA: 9.12/10.00

Coursework: Data Structures & Algorithms, Database Systems, Computer Networks, Distributed Systems, Software Engineering.

Mumbai, India

May 2021

WORK EXPERIENCE

BNP PARIBAS

Associate Software Engineer – Liquidity Management Team

- Led critical feature update for On-demand Cash Pooling involving lending and borrowing limit constraints, leveraging Java-Spring Boot, SQL, Angular and UNIX jobs and increasing client satisfaction by 30%.
- Automated client report generation, cutting manual effort by 50% and improving delivery time by 35%.
- Streamlined communication and planned 2022 roadmaps for multiple cash pooling projects in China, reducing misalignment.
- Provided Level 3 support, resolving data patch requests within 1 hour on average and circumventing production failures.

Mumbai, India

Jun. 2021 – Jun. 2022

Software Development Intern – ATLAS2 Design and Development Team

- Developed Java-based data handling APIs and migration scripts for 400+ parameter tables in the JGestab application.
- Improved business rule logic in the JGestab parameterization tool by analyzing legacy COBOL code, resulting in a 20% reduction in errors.
- Implemented an automated testing script using Selenium-Java to evaluate business rule logic, increasing testing efficiency by 30% and identifying fail cases promptly.

Jan. 2021 – Jun. 2021

UNIVERSITY PROJECTS

A Lightweight Hypervisor for Linux and VM latency measurement

- Developed a custom Type 2 hypervisor using C and inline Assembly for Intel Virtualization Technology (Intel VT-x), enabling enhanced virtualization capabilities.
- Implemented guest code execution in Assembly, handling tasks of varying complexities and achieving efficient performance with an average VM latency of 600 CPU cycles.
- Explored nested virtualization with 2 levels and observed a substantial 45% increase in VM latency on VMWare compared to direct host access.

Feb. 2023 – May 2023

EyeCanDo - An iOS-based Eye Movement Tracking for HCI Assistance for ALS patients

- Enhanced app calibration accuracy by introducing homography for gaze points using Swift, ARKit and Objective-C++.
- Created a testing module to quantifiably assess the impact of calibration enhancements on eye tracking accuracy, establishing a 20% improvement in calibration precision.
- Deployed CoreML, Tensorflow and PyTorch models on iOS for performance analysis in Xcode Instruments.

Jan. 2023 – May 2023

TECHNICAL SKILLS

Languages & Databases: Java, Python, C/C++, Swift, JavaScript, HTML, CSS, SQL, NoSQL, Shell Scripting.

Frameworks: Django, React, Git, Agile, Spring, XML-RPC, Nginx, Selenium, Android; iOS - CoreML, ARKit.

OTHER ACHIEVEMENTS

- **Awards:** "Best Paper" award for "Pothole Detection using Accelerometer and Computer Vision" at ICPSC conference, May 2021; "Best Paper Presentation" award for "Bidirectional Sign Language Translation" at ICCICT 2021 conference, June 2021.
- **Publications:** Contributed 5 research papers in the Machine Learning space. Link: <https://tinyurl.com/AbhiR-GScholar>.
- **Teaching:** Mentoring sessions on "Understanding data for Machine Learning applications", C workshop, Teaching Assistant for Digital Intelligence, Data Warehousing & Mining, Database Management.
- **Extracurriculars:** Dance Instructor, Vice Chairperson of Oculus 2020 (College festival), Beach Cleaning Volunteer; Organized for a fundraiser for Cancer Patients Aid Association and raised ₹18,000 apart from 1500 clothing items.