FEBY BABY

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Innovative. Strategic. Collaborative   Visionary Technologist

Profile in brief

- 13+ years of experience leading teams to deliver innovative tech solutions across healthcare, life sciences, networking, insurance, and retail sectors, serving 11+ clients and 23+ projects.
- Log Parser: Streamlining Data Analysis by 70%.
- Catalyzing Healthcare Transformation: 56% Improved Diagnostics.
- Driving project success and contributing to renowned global cultural brands by leveraging cloud and cluster platforms.

Area of expertise

• Technology Leadership	• Strategic Planning & Execution	• Agile Development Practices
• Collaborative Leadership	• Multidisciplinary Team Management	• Efficient Outcome Delivery
• Customer-Centric Product Design	• Digital Transformation Strategies	• Data Analysis & Interpretation

Skills

- Python 3.11, Pandas, PyQt5, openpyxl, xlsxwriter, matplotlib, FastAPI, Pydantic, SQLAlchemy, Alembic
- Java, Spring MVC, Spring Boot, Hibernate
- Qt Designer, pyinstaller, pytest, Junit
- Cloud: AWS EC2, S3, ECR, Lambda
- Docker containerization
- SQL Server, Oracle, MySQL, PostgreSQL, H2 DB
- Shell scripting and Unix commands
- ADO build pipelines, Jenkins
- RESTful WebServices
- Angular, Ajax, jQuery, JavaScript
- Agile, Jira, GIT, CI/CD, TDD
- Domains: Healthcare, Life Science, Networking, Insurance, Retail

Professional Experience

Principal Technical Lead: UVJ Technologies Pvt Ltd   **September 2024 to Present**
Client: Lonza
Optimizing Calibration Processes: The Thermal Calibration Tool Development
- Designing and developing a user-friendly tool that automates calibration and verification stages, reducing technician errors and boosting productivity.
- Streamlining data interpretation and report generation, automating 80% of tasks to enhance efficiency.
- Ensuring 100% field coverage for successful calibration, benefiting Sustaining, Manufacturing and Service teams.

Technical Lead: UVJ Technologies Pvt Ltd   **March 2024 to August 2024**
Client: Lonza
Elevating Data Analysis: The Log Parser Tool Achievement
- Designed and developed a user-friendly interface with a settings page for seamless database attachment, removal, or switching.
- Enhanced utility by enabling data export to Excel based on POID or date range, meeting diverse team needs.
- Conducted comprehensive data analysis by extracting and processing databases through the Log Parser Tool, delivering clear, user-friendly data.
- Implemented customization features for creating summary sheets, categorizing data sources, and applying color codes for easier analysis.
- Integrated advanced search functionalities, including multiple selection of measurements_id and search by POID and date, streamlining data retrieval.
- Developed graph plotting capabilities to further aid data visualization and analysis.
- Launched Log-Parser V1.0, a diagnostic tool that drastically cut down data analysis time, enhancing productivity across Sustaining, Manufacturing, Service, and Software Teams. The tool optimizes data interpretation and visualization, reducing processing time from 3 hours to just 10-15 minutes, while automating 60-70% of tasks.

Technical Lead: UVJ Technologies Pvt Ltd   **May 2023 to February 2024**
Client: Tel Aviv Sourasky Medical Center
Catalyzing Healthcare Transformation: The Journey of the Ichilov Annotator & Analyser
- Spearheaded the development of the Ichilov Annotator & Analyser, leveraging FastAPI and SQLAlchemy for the backend and Angular, Ajax, jQuery, and JavaScript for the frontend.
- Orchestrated the architecture and development of both applications, steering a multidisciplinary team through iterative development cycles.
- Collaborated with third-party companies to integrate cutting-edge AI algorithms for precise pathology slide analysis, enhancing diagnostic accuracy.
- Played an integral role in client interactions and project planning, ensuring alignment with the goals of Tel Aviv Sourasky Medical Center.
- Demonstrated global success, positioning the project as a pioneer in healthcare innovation and transformation.
- Spearheaded the creation of innovative annotation and analysis tools for digital pathology using AI diagnostics, globally acknowledged for improving diagnostic accuracy by 56% and enhancing patient care.
- Earned recognition for advancing dataset generation for training image analysis models, showcasing strong technical expertise, dedication to excellence, and adaptability

Technical Lead: UVJ Technologies Pvt Ltd   **May 2019 to May 2023**
Client: Q² Solutions
Revolutionizing Life Sciences: The TSx Projects Success Story

- Leveraged Python, Docker, and AWS for genomic data analysis across diverse Life Science projects at Q2 Solutions.
- Developed advanced tools for Secondary and Tertiary genomic analysis, enhancing data interpretation accuracy.
- Integrated leading Illumina platforms like Trusight Tumor 170 and TruSight Oncology 500 for comprehensive analysis.
- Optimized data processing efficiency using Dockerized applications and Slurm Grid infrastructure.
- Implemented Illumina DRAGEN Bio-IT Platform for cutting-edge genomic analysis capabilities.
- Orchestrated project management tasks including estimation, staffing, and documentation, ensuring project success and efficiency.

Technical Lead: UVJ Technologies Pvt Ltd   **December 2017 to June 2019**
Client: neteXpose
Empowering Network Discovery: The Success Story of neteXpose-DNA

- Implemented groundbreaking IPMI and Redfish technologies for intelligent network discovery.
- Developed a robust DNA Network Discovery Engine for comprehensive IP network mapping.
- Integrated SNMP, WMI, and other protocols for extensive network scanning capabilities.
- Delivered user-friendly web applications for configuration and data management.
- Provided executable JARs and clear instruction guidelines for seamless client deployment.
- Received accolades for innovative solutions from satisfied clients.

Senior Software Engineer: UVJ Technologies Pvt Ltd   **April 2015 to February 2017**
Client: ELEGANTRA, INC.
Elevating Mobile Health: The Success Story of Joyous

- Spearheaded the development of RESTful APIs for seamless integration with Joyous mobile app.
- Implemented using Spring, JPA, and EclipseLink for robust backend functionality.
- Designed and deployed critical features enhancing user experience and engagement.
- Ensured data security and integrity through rigorous testing and validation procedures.
- Collaborated closely with cross-functional teams to meet project milestones and objectives.
- Received positive feedback from stakeholders for delivering a high-quality, user-centric mobile application.

Software Engineer: UVJ Technologies Pvt Ltd   **April 2012 to January 2015**
Client: Knome, Inc
Pioneering Genomic Interpretation: The KGAP and KNOSYS100 Success Story

- Engineered end-to-end human genome interpretation systems for Knome Inc.
- Implemented high-performance grid computing to expedite data analysis.
- Integrated advanced genomic technologies for comprehensive analysis.
- Spearheaded development efforts ensuring scalability and reliability.
- Collaborated cross-functionally to achieve project milestones and deadlines.
- Contributed to groundbreaking advancements in genomic research and personalized medicine.

Software Engineer: Moonraft Innovation Labs Pvt Ltd   **February 2011 to April 2011**
Client: ICICI Lombard General Insurance Co. Ltd
Navigating Claims Management: Marine Claims Web Tracker Success Story

- Developed Java web applications for ICICI Lombard, streamlining marine claims processing.
- Leveraged J2EE technologies and Oracle database for robust and efficient data management.
- Enhanced user experience and efficiency through intuitive interface design and seamless functionality.
- Contributed to improved claims management processes and customer satisfaction for ICICI Lombard.

Consultant Engineering: Subex Limited   **December 2009 to January 2011**
Fostering Collaboration: The Success Story of Subexnet Intranet Solutions

- Engineered Java web applications for Subex Ltd., enabling seamless internal communication and collaboration.
- Employed J2EE technologies and MySQL database for optimized data management and accessibility.
- Engaged with various stakeholders, including HR, IT, Engineering, Finance, and Facility, to ensure alignment with organizational goals.
- Received commendation from the VP & Global Head of HR, acknowledging contributions to enhanced internal processes and teamwork.

Education

Education	Institute	University	Location	Passing Year
Bachelor of Technology(B-Tech) - Information Technology	Rajagiri School of Engineering & Technology, Kakkanad	Mahatma Gandhi University	Kerala	2009

Certifications

Certification	Organization	Passing Year
AI Tools Workshop	IITian Teaches	2023
Lean Six Sigma Yellow Belt	Six Sigma	2022
Agile Development Practices	LinkedIn Learning	2022
THE IRON LADY LEADERSHIP ESSENTIALS PROGRAM	Iron Lady	2022
SUPER BRAIN Quest with JIM KWIK	MindValley	2019
The Billionaire Mindset	LifeLine	2018