Bhanuka Dissanayake

Software Engineer with Full-Time Work Rights (Australia)
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Summary

Software Engineer with 3+ years of professional experience in diverse domains of retail, eCommerce, sports, and HRM across various technologies with exposure to the full Software Development Life Cycle. Skilled in researching, designing, developing, testing, troubleshooting, and maintaining software, tackling complex problems by following the best coding standards.

Skills

- Programming Languages: C#, Python, JAVA
- Technologies/Frameworks: .NET Core - ASP.NET Web API, Django, React
- Other: JavaScript, HTML, CSS
- Databases Systems: MS SQL Server, PostgreSQL
- ORMs: Entity Framework Core, Dapper
- Cloud technologies and CI/CD: AWS Services, Docker, GitLab CI, Jenkins
- Engineering Practices: SOLID, Clean Architecture, Unit/automated testing, REST, Agile/Scrum, SDLC
- Source Control Management: Github, Gitlab, Subversion
- Soft Skills: Adaptability, Cross-functional Team Collaboration, Problem Solving

Experience

Software Engineer, Calcey Technologies   April 2022 - April 2024

Project Engagements, tasks & responsibilities.

- Praisal - Resource Management Portal
  - Researched, designed, and developed the version 1.0 release of the Calcey Resource Management portal for resource, project, and client management.
  - Collaboratively involved in client engagements, facilitated requirement gatherings, and contributed to sprint planning, fostering efficient project execution.
  - Designed and implemented core domain entities adhering to Domain-Driven Design.
  - Designed and developed Web API adhering to CQRS, and Clean architecture guidelines, leading to streamlined development, system scalability, and maintainability.
  - Engaged in API deployments, ensuring seamless integration and timely releases.
  - Stack- C#, .NET 6, PostgreSQL, React, GitLab, AWS EC2, Figma, Jira

- Nelly.com
  - Engaged in product maintenance of one of Nordic's leading e-commerce platforms in fashion and accessories with an offshore team in Sweden.
  - Worked on a microservices-based system, maintaining multiple APIs and services.
  - Troubleshooted, debugged, and fixed issues with a complex stored procedure-based querying system to enhance the performance and meet desired requirements.
  - Implemented a solution to protect outlet product prices, preventing automatic changes to full price due to late orders.
  - Stack- C#, .NET Core, MS SQL Server, TypeScript, Svelte, GitHub, YouTrack

- AiSCOUT
  - Contributed to a talent identification platform linking football players and scouts collaborating with the 40+ development team.
  - Involved in designing and developing impactful features for the monolith REST API of mobile applications (player, scout, coach) such as endpoints, background tasks, and consumer services adhering to CQRS, Clean, and SOLID principles.
  - Engaged in developing a Content Management System for AiScout internal use, using Blazor WASM, streamlining content management processes, and improving internal operational efficiency for developers, testers, and other users.
  - Stack - C#, .NET 7, Blazor WASM, MS SQL Server, Python, AWS Lambda, AWS S3, Redis, GitLab, Figma

- Stanford GSB eLearning platform
  - Successfully upgraded the Django version from 1. x to 4.0, leading to complete testing and releases by leading the development team (4 people).
  - Took the responsibility of initiating the project and tasks in the early stages and maintained proper documentation and reporting.
  - Guided, and mentored junior developers, used resources to get the tasks done, reviewed code, and monitored them.
  - Stack - Python, Django, PostgreSQL, Elasticsearch, GitLab, AWS EC2, Jira

Software Engineer, Enactor Ltd   Feb 2021 - March 2022

- Researched & developed partial downloading functionality for files ensuring fault-tolerant, efficient transmission, and accurate information across all POS machines.
- Developed a feature to use DNS names for device registration via QR codes in the Enactor Retail Platform's Estate Manager, improving the registration process with efficiency and innovation.
- Optimized the Enactor platform's performance with a distributed processing feature using Zookeeper, enabling real-time extraction and updates from diverse documents like system events, retail transactions, and device events.
- Contributed as a developer in the Customer Support & Development team, focusing on troubleshooting and resolving customer-reported issues and bugs.
- Automated functionalities within the Point of Sale application and APIs to enhance efficiency and streamline operations.
- Stack - JAVA, Maven, MySQL, Enactor DevTools, Subversion, Jenkins, Cucumber, Docker, Apache Zookeeper, Jira

Undergraduate Researcher, University of Moratuwa, Sri Lanka   Dec 2019 - Jan 2021

- Researched, designed, and developed a Microservices-based SaaS platform to aggregate, integrate, and visualize transportation data within urban areas. Supported by the AHEAD Operation of the Ministry of Higher Education, Sri Lanka funded by the World Bank.
- Led the team (3 people) on Integrating traffic and weather data for traffic volume forecasting.
- Developed algorithms using Python for the comparative analysis of ARIMAX, VAR, and LSTM models for multivariate time-series forecasting.
- Achieved nearly 91% accuracy in forecast traffic count for the next day using the VAR model.
- Developed and integrated a Traffic Forecasting service using the VAR model as a Web API within the existing microservices platform, enhancing predictive accuracy and efficiency.
- Stack: Python, Numpy, Pandas, Matplotlib, Statsmodels, Flask, JAVA, SpringBoot, Angular

Intern - Technology, Virtusa(Pvt) Ltd   Jul 2019 - Dec 2019
Project Engagements, tasks & responsibilities.

- SIBOS COLLATERAL
  - Developed a message generator for SWIFT MT700 format for the purpose of generating datasets for training machine learning models.
  - Developed a POC of the Named Entity Recognition model and REST API for extracting metadata, performing sentiment analysis on news articles, and providing average sentiment scores for specific named entities.
  - Stack: JAVA, Maven, Python, Keras, Tensorflow, Flask, MongoDB
- DTS Insights
  - Worked as a JAVA Full-stack developer in a microservices-based Enterprise Software Development Life cycle dashboarding and gamification platform.
  - Conducted comprehensive research and developed a proof of concept for enhancing security using Spring Security, ensuring robust protection for web applications.
  - Developed the Authentication microservice for JWT authentication to secure user sessions and protect REST APIs.
  - Created UI components and backend services for Login screen functionalities, improving user account management and security.
  - Stack- JAVA, Spring Boot, React, MySQL, Elasticsearch, Jira

Education

BSc.(Hons) in Engineering   Jan 2017 - July 2021
Specialized in Computer Science and Engineering
(Washington Accord Accredited)
University of Moratuwa, Sri Lanka

GPA: 3.67/4.20

Awards and Achievements

- Research Publication - A Comparison of ARIMAX, VAR, and LSTM on Multivariate Short-Term Traffic Volume Forecasting at 28th Conference of The Open Innovations Association FRUCT.[Link].
- Dean's List awards (Semesters 6 & 8) for outstanding academic performances from the University of Moratuwa, Sri Lanka.
- Winners of the IDEA Challenge competition organized by the IESL in 2018.
- 6th place of Flu Shot Learning - Out of 1400 worldwide competitors at the DrivenData data science competition in 2020.
- Finalist in the 4iR Hackathon organized by Virtusa (Pvt) Ltd in 2018.
- Tech Blogger in Medium.com bhanukadissanayake.medium.com - Writer at Towards Data Science, DataDriven Investor & Level Up Coding for quality blog content.
- Mahapola Merit Higher Education Scholarship for outstanding performance in G.C.E. (A/L) 2015, ranking 231st out of 32,393 students, honored by the Government of Sri Lanka.