Abhishek Vijay Bhave

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Education

Master of Science, Computer Science, University at Buffalo Aug 2018 - Feb 2020
Bachelor of Engineering, Information Technology, University of Mumbai Aug 2014 - Jun 2018

Skills

Programming Languages: Python, C/C++, Java, JavaScript, Typescript, HTML/CSS, SQL

Frameworks: Node.js, Express.js, React,js, Mongoose, Django, SystemC, Boost, STL, Hadoop

Database & Cloud: MS SQL Server, SQLite, MongoDB, AWS, Azure, Docker, Git, Linux, Jenkins, Docker, Kubernetes

Work Experience

Software Engineer, Meta Platforms Inc 07/15/2024 - Present

- Work Address: 1 Hacker Way, Menlo Park, CA 94025
- Working as a Software Engineer in the Traffic Realtime team on the Edgeray product which enabled real time commnucation for various Meta products like Whatsapp, Messenger, Cloud Gaming, Workroom, etc.
- Led C++ performance optimization opportunity which resulted in 3.5% CPU win accounting for savings of hundreds of thousands of dollars in 100+ server clusters around the world.
- Built feature to attribute CPU and memory usage of edgeray to a particular product thus enabling product attribution, capacity estimations and product billings.

Software Engineer 3, Juniper Networks Inc 05/18/2020 - 07/12/2024

- Work Address: 1133 Innovation Way Sunnyvale, California, 94089
- Designed and developed high-performance SystemC software simulators for the BX and KX networking chips. Engineered a multi-threaded pure C++ simulator for the XT chip, enhancing its efficiency and performance.
- Optimized the speed of the vBX simulator speed from 20 packets per second (pps) to 2300 pps, marking a 115x improvement by profiling code and resolving bottlenecks and optimizing algorithms and code.
- Spearheaded the creation of Python and C++/CMake based build system for the simulators.
- Developed a comprehensive testing and regression framework to validate simulator accuracy and reliability.
- Led efforts to build and optimize the release pipeline for the simulator, enhancing the deployment process.

Software Engineer, LeanTaas Inc 02/24/2020 - 04/17/2020

- Work Address: 471 El Camino Real #230, Santa Clara, CA 95050
- Worked as a Software Engineer in the Data Engineering team on the iQueue for Infusion product.
- Developed backend APIs and services in Java and Scala to efficiently represent hierarchical relationships, enhancing data management capabilities.
- Implemented Python data processing scripts to serve healthcare customers across the United States, resulting in streamlined data operations and improved workflow efficiency.

Projects

Options Trade Calculator and Logging Tool

- Developed a MERN stack application for managing and analyzing options trades with a user-friendly React.js UI, integrated with a scalable Node.js/Express API, and deployed on AWS with EC2 auto-scaling and load balancing.

Instagram Clone Application

- Full Stack Instagram Clone Application using React, Chakra UI, Firebase Auth, Storage and Firestore Database.
- Application enables users to create profiles, add posts, see followers post and like and comment on pictures.

Amazon Dynamo Database

- Built a distributed key-value storage system for Android using Java, ensuring high availability and linearizability through consistent hashing and chain replication, while handling concurrent reads/writes and failure recovery.

Image-to-Image Translation with Conditional Adversarial Networks

- Developed a conditional adversarial network system employing Generative Adversarial Networks (GANs) and their variants, such as Conditional Adversarial Networks (cGANs).
- The goal was to create a model capable of image-to-image translation by learning a structured loss function and simultaneously training a generative model to minimize the loss.
- Implemented the project using Python and deep learning libraries such as TensorFlow and Keras.