Nachiket Erlekar

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EDUCATION

University of Southern California, Los Angeles, USA — January 2023 - Expected December 2024
Master of Science in Computer Science, Viterbi School of Engineering — *GPA: 3.78/4.0*
- Coursework: Web Technologies, Software Architecture, Analysis of Algorithms, Database Management, Information Retrieval and Web Search Engines, Foundations of Data Management, Advanced Mobile Devices and Game Consoles

Pune Institute of Computer Technology, Pune, India — August 2017 - July 2021
Bachelor of Engineering in Computer Engineering — *GPA: 9.26/10*
- Coursework: Data Structures and Algorithms, Object Oriented Programming, Software Engineering and Project Management, Artificial Intelligence and Robotics, Machine Learning, Data Analytics, Data Mining and Warehouse.

TECHNICAL SKILLS

Languages, Mobile and Web: Java, Python, C++, SQL, Javascript, TypeScript, HTML, CSS, Swift, Hadoop, PySpark, JSON
Frameworks and IDE: Springboot, Micronaut, Flask, Angular, JUnit, Express.js, Node.js, SwiftUI, GraphQL, IntelliJ, Unity
Developer and DevOps tools: Git, Gitlab, Github, Docker, Kubernetes, Helm, GitOps, CI/CD pipeline, MS Office, MS Excel
Databases, Cloud services and tools: MySQL, PostgreSQL, MongoDB, Snowflake, AWS, GCP, Jira, Confluence.

EXPERIENCE

Yahoo | *Java, JUnit, C, CPP, Python* — June 2024 - August 2024
Software Engineering Intern - II — *Los Angeles, USA (Hybrid)*
- Migrated legacy C-codebase to C++ to enhance performance, increase flexibility, functionality and modernize the codebase.
- Created 15+ unit test cases using JUnit to test the C++ code via JNA, which guarantees reliability and accuracy of the code.
- Built a new feature in our team's core product using Java that handles complex data structures, effectively mitigates and eliminates fraudulent activity, and efficiently processes millions of requests daily through Yahoo's servers.
- Conducted performance testing, memory testing and JMH testing for the feature created.
- The feature improved performance by 24% and increased the product's functionality. The migration from C to C++ modernized the legacy software, ensuring seamless compatibility with both modern and legacy projects across the organization.

UBS | *Java, Springboot, DevOps, CI/CD, PostgreSQL* — July 2021 - October 2022
Software Engineer — *Navi Mumbai, India*
- Developed a review-based application with Java Springboot and a Business Process Model Notation tool called Flowable.
- Successfully streamlined a previously time-consuming manual process by implementing an automated system that manages the entire review life cycle, including downloading, emailing status updates, and processing.
- Designed and implemented multiple microservices REST APIs with Java Springboot to enhance functional aspects and data processing capabilities of our core application. One notable contribution includes the development of a Spring Batch application that adeptly reads, processes, and writes incoming data to staging tables, followed by the seamless transfer of data from the staging tables to the main tables in chunks of 1000 records in our Postgres database.
- Enhanced the efficiency of the life cycle and decreased the time required for the process from 4-5 hours to 2-3 minutes.

NICE Systems | *Java, Springboot, Angular, AWS, Snowflake, Python Scripts* — October 2020 - April 2021
Software Engineering Intern — *Pune, India*
- Developed an application for data extraction that enables users to extract data either on a scheduled or on-demand basis. The extraction process retrieves the necessary data from Snowflake Data Warehouse and efficiently loads it into our AWS S3 buckets. AWS SES was used to send users an email containing a link to download their desired extracted data.
- Built robust APIs using Java Spring Boot to create effective routes for our application and establish connection to Snowflake and AWS and use their services.
- Created automation scripts in Python to send an email link to the user by AWS SES to download their extracted data.
- This transformation significantly heightened effectiveness for all process stakeholders and drastically reduced the overall process duration, from 1-2 days to 5-10 minutes , depending on the size of the data being exported.
- Awarded as the Winner of the Virtual Internship Program under the category of "Technical Complexity".

PROJECT

Ebay MEAN Stack WebApp and iOS Mobile App | *Swift, Angular, Node.js, Express.js, MongoDB, Flask, GCP*
- Designed and implemented an iOS application and a MEAN Stack WebApp leveraging eBay APIs to empower users in searching for products, accessing product information, managing a wishlist feature, and seamlessly sharing product details on Facebook.
- Engineered the backend infrastructure of the application using Node.js, Express.js, MongoDB and Ebay APIs. The backend infrastructure is hosted on GCP.

LEADERSHIP POSITION

Chairman | *PICT ACM Student Chapter* — 2018 - 2021
- Led 400+ members and was responsible for developing chapter programs, ensured that plans and assignments are carried out, increased chapter member count substantially and made sure that the chapter fulfills its obligations to the Association.