Atharva Jitendra Kulkarni

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EDUCATION

University of Texas at Dallas, Dallas, TX, United States   **May 2025**
Master of Science, Computer Science   **GPA – 3.72/4**
Relevant Coursework: Design and Analysis of Algorithms, Database Design, Software Engineering,
Web Development, Big Data Management and Analytics, Natural Language Processing.

Savitribai Phule Pune University, Pune, India   **May 2021**
Bachelor of Engineering, Information Technology   **GPA – 9.25/10**
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Machine Learning, Computer Networks

PROFESSIONAL EXPERIENCE

ACI Worldwide, Pune, India - *Associate Software Engineer*   **August 2021 – July 2023**
- Implemented Barclays Click2Pay and Chase mobile wallets (Apple Pay and Google Pay) using **Java/J2EE**, **Spring Boot**, and **PostgreSQL**, expanding customer payment options by 40%. Designed a dedicated CI/CD pipeline with **Jenkins**, **Gerrit**, and **Docker** utilizing Feature Switches.
- Administered the deployment of Petco gift cards in Hibernate and **JavaScript**, achieving an expected ARR of $20 million in 3 months, resulting in increased revenue for the client.
- Enhanced **API development** and **testing** utilizing **Postman** in an **Agile** environment, allowing for easy integration of changes into production apps and ensuring optimal functionality with **JIRA**.
- Delivered technical support and troubleshooting proficiency to clients and internal teams, leading to prompt issue resolution, and sustaining exceptional customer satisfaction with 0 defects on production releases.

Oriole Labs Pvt Ltd, Pune, India - *Software Engineering Intern*   **January 2020 – May 2020**
- Collaborated closely with clients to develop and implement solutions in **C# Asp.Net**, **JavaScript**, and **Microsoft Server SQL**.
- Proposed a three-layered architecture (Model Layer, Business Logic Layer, and Data Layer) for enhanced security, with approximately 70% of core functionality handled in the database.
- Revamped cross-platform application deployment strategy using **Bootstrap** for desktops, cellphones, and tablets, resulting in increased user accessibility and engagement across all devices by 50%.
- Crafted a robust user management system with modules programmed using **HTML**, **CSS**, **JavaScript**, and **jQuery**.

KEY PROJECTS

Grocery Store Web Application [GitHub]   **August 2023 – November 2023**
- Developed a dynamic grocery store web application using JavaScript, jQuery, **AJAX**, and **PHP** to provide users with a seamless online shopping experience, including browsing, product selection, and a shopping cart feature.
- Implemented a **MySQL** database, **XML**, and **JSON** for efficient data storage and retrieval, ensuring optimal performance.
- Designed the website with Bootstrap, HTML, and CSS for compatibility across various devices.

Automated Prerequisite Waiver System [GitHub]   **November 2023 – December 2023**
- Engineered a groundbreaking prototype for an automated prerequisite waiver system using Python libraries like **NLTK** and **Scikit-Learn** within Flask for text-matching algorithms.
- Streamlined the process for incoming graduate students by enabling them to appeal and obtain temporary and permanent waivers based on their undergraduate coursework and work experience, utilizing **JavaScript** and **PHP**.

Two-Stage Traffic Sign Classifier [GitHub]   **July 2020 – May 2020**
- Developed a robust traffic sign classifier utilizing a two-stage approach. Employed YOLOv3, an object detection algorithm, for initial object detection and classification of traffic signs into categories such as prohibitory, mandatory, danger, and others.
- Implemented a 26-layered **CNN** model to further classify the images into 43 classes with 97% accuracy, following image cropping and processing.
- Successfully trained the YOLOv3 model on the GTSRB dataset for 8000 epochs and the CNN model on the same dataset for 30 epochs to ensure precise recognition.
- Published a research paper Image Classification for Traffic Sign Recognition (IJISRT)

TECHNICAL SKILLS

- **Languages and Technologies**: Java, Python, JavaScript, C#, jQuery, React.js, SQL, PHP, MongoDB, Pytorch NLTK
- **Frameworks and Tools**: Spring Boot, Asp.Net, Postman, Jenkins, JIRA, Hibernate, Gerrit, GitHub, Excel, Hive, Hadoop, Apache Spark