

PUSHPAK JAJU

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EDUCATION

Arizona State University , Tempe, AZ Master of Science in Computer Science; GPA 3.93/4.0	Aug 2023 - May 2025
PES College of Engineering (Affiliated to Visvesvaraya Technological University), India Bachelor of Engineering in Computer Science; GPA 3.6/4.0	Aug 2017 - Sept 2021

TECHNICAL SKILLS

Programming Languages & Databases: Python, TypeScript, JavaScript, Node.js, Java, SQL, MongoDB, PostgreSQL.

Web Technology: HTML, CSS, REST APIs, CI/CD Pipelines, Jenkins, API, Web Scraping.

Tools: Tableau, Google Cloud, AWS, Apache Spark, Hadoop, Kafka, Kubernetes, Docker, Git, Jira, Power BI.

Frameworks & Packages: Django, Flask, Spring Boot, Angular, React, Numpy, Pandas, Pytorch.

WORK EXPERIENCE

Software Engineer Intern, MyAscend AI, San Jose, CA	Jul 2025 - Dec 2025
<ul style="list-style-type: none">Developed a unified passwordless authentication framework integrating email verification links and phone OTP verification using Next.js server actions, Supabase Auth, and Temporal workflows, eliminating duplicate accounts and improving onboarding.Redesigned the group invitation experience with enforced contact validation and automated organization setup, resolving pre-existing user conflicts and reducing account-linking errors by 90% in multi-tenant environments.Implemented an end-to-end profile upload system with image validation, cropping, and instant preview via React and Supabase storage, achieving 99%+ successful updates.Optimized organization member management by refining SQL JOIN performance and enabling real-time updates through React state synchronization, allowing 25+ users across 4 organizations to collaborate seamlessly and reducing page load times by 40%.	
Software Engineer, Arizona State University (EOSS Tech Team), Tempe, AZ	Jun 2024 - May 2025

Software Engineer, Arizona State University (EOSS Tech Team), Tempe, AZ	Jun 2024 - May 2025
<ul style="list-style-type: none">Implement and manage a dynamic ride scheduling feature for a campus cart application using React and TypeScript, enabling users to filter and view scheduled rides based on campus locations, achieving a 40% reduction in search time.Engineer a robust rescheduling system that allows users to modify ride details, such as date, time, locations, and driver, directly within the interface, streamlining the process and resulting in a 30% boost in user engagement.Transform a static ride schedule table into an editable interface, enabling admins to directly modify ride details (pickup time, locations, driver, notes, and status) and delete individual rides, reducing administrative update time by 30% and improving data accuracy across 200+ rides weekly.	

Data Engineer, Cognizant, Bengaluru, India	Aug 2021 - Jul 2022
<ul style="list-style-type: none">Revamped ETL workflows and optimized stored procedures in a data warehouse, leading to a 25% boost in query performance and a 20% reduction in data processing time, thereby increasing overall system efficiency.Built APIs for seamless data integration between SQL Server and Google Cloud BigQuery, ensuring smooth data flow, enhanced scalability, and reliable performance under heavy workloads.Formulated detailed data quality baseline flow diagrams, including robust error handling and comprehensive test planning, with the goal of decreasing data errors by 40% and significantly improving data reliability.	

PROJECTS

Swarm Intelligence-Based Distributed Database System	Sep 2024 - Nov 2024
<ul style="list-style-type: none">Innovated a distributed database system leveraging swarm intelligence algorithms (ACO and PSO) for adaptive data partitioning and query optimization.Deployed a fault-tolerant architecture by integrating MongoDB, Docker, Kubernetes, and Apache Kafka to achieve seamless scalability and efficient communication across distributed nodes.	
Elastic Face Recognition Application (IaaS)	Feb 2024 - Apr 2024
<ul style="list-style-type: none">Designed a scalable face recognition application on AWS EC2, utilizing a multi-tier setup for efficient workload management and optimized resource allocation.Configured autoscaling 20 EC2 instances for the application tier, allowing automatic adjustment based on demand, minimizing costs and enhancing performance.	
Serverless Video Analysis Pipeline (PaaS)	Feb 2024 - Apr 2024
<ul style="list-style-type: none">Created a serverless video processing pipeline with AWS Lambda for scalable video analysis and face recognition, leveraging AWS services for efficient task execution.Streamlined data handling workflows by integrating AWS S3 for storage and Lambda functions, ensuring high concurrency and low latency in real-time processing.	
Predicting Phenotype in Yeast, Rice, and Wheat	Mar 2021 - May 2021
<ul style="list-style-type: none">Developed a machine learning model achieving 94% accuracy in predicting organism physical characteristics by utilizing advanced algorithms and genomic data.Leveraged diverse ML techniques, such as ridge regression, lasso regression, random forest, GBM, SVM, and genomic BLUP, to boost predictive accuracy.	