

AKSHATA VIJAY KULKARNI

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EDUCATION

Arizona State University

Master of Science in Software Engineering (GPA: 3.67 /4.0)

Tempe, AZ

Jan 2024 - Dec 2025

Savitribai Phule Pune University

Bachelor of Engineering in Computer (GPA: 3.8 /4.0)

Pune, India

Aug 2017 - May 2020

TECHNICAL SKILLS

Languages:	Java, C++, Python, C, Android, Prolog.
Web Skills:	JavaScript, HTML5, CSS3, PHP, Rest API, Bootstrap, Socket.io, TypeScript.
Frameworks:	NodeJS, React, Redux, Express, PassportJS, Angular.
Databases:	MySQL, Firebase, MongoDB, PostgreSQL, Cassandra.
Data Engineering:	Apache Hadoop, Big Data, ETL, MapReduce, NLP, TensorFlow, ETL.
Data Science and Analytics:	Matlab, Data analysis and visualization, Machine learning model development, Data cleaning and preprocessing, Pandas, NumPy, Scikit-learn, Matplotlib, genAI.
Tools:	AWS, Azure, GCP, GIT, Docker, Kubernetes, Linux, Spring Boot.

WORK EXPERIENCE

Senior Software Engineer | Persistent Systems Ltd

Nov 2020 - Dec 2023

- Developed a Static Analysis Tool for an AWS client, leveraging Java, Python, and JavaScript as a polyglot programmer.
- Expanded tool's capabilities by incorporating infrastructure support for a new programming language, and enhancing existing code to improve efficiency.
- Managed release deployment process using the CI/CD pipeline ensuring seamless integration and continuous delivery of new features and updates.
- Performed strategic optimizations to streamline the tool's performance, reducing in excess evaluation time and boosting overall efficiency.
- Engaged in weekly status review meetings, presenting project deliverables, and progress reports, and addressing blockers and challenges to stakeholders.
- Engaged in client interactions during review meetings, addressing queries promptly and ensuring clear communication of project status and next steps.
- Generated and organized data for training a model to accomplish a generative AI approach for project development.
- Gained hands-on experience in training and utilizing generative AI models to enhance software development processes.

PROJECTS

Compiler and Virtual Machine for Programming Language with Java and ANTLR.

March 2024 - Apr 2024

Built a Lexer and Parser using ANTLR and integrated it into an Evaluator in Java to design a new interpreted programming language to perform basic operations and support functions and Data types.

E-commerce Web Application with AngularJS, Node, MongoDB.

Aug 2020 - Nov 2020

Led & constructed an end-to-end development of Music Store application leveraging Agile methodology, JWT, and focusing on NFRs of Angular such as security and performance, where the frontend was hosted on Heroku and the backend on Firebase.

Online Score Prediction with Descriptive Answers using Java, MySQL, JSP Servlet.

Jul 2019 - Apr 2020

Created a portal for students to study and attempt the test by submitting descriptive answers.

Utilized machine algorithms: TF-IDF (Term Frequency-Inverse Document Frequency) algorithm to extract keywords from answers and k-NN classifier for score prediction with a proposed similarity measure.

Research Paper : <https://www.jetir.org/papers/JETIR2005302.pdf>

Marketing Dataset Classification using SVM and Python.

Aug 2019 - Dec 2019

Trained a model to create an application for classifying marketing datasets using a Support Vector Machine (SVM) algorithm. Discovered strategies to enhance the next marketing campaign and generated a classification report.

Android Application using Java SQLite.

Dec 2016 - Apr 2017

Developed an Android application for a specific store to scan the QR code and make the payment for the products.

Generated a custom QR code for each product from Google Search Engine for an ID and stored the ID in the MySQL database to provide the product information after scanning.