

JACOB JOSE

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EDUCATION

M.S. Software Engineering, Cybersecurity specialization, Arizona State University, Tempe, AZ. **GPA 3.9/4.0** Dec 2023
Relevant Courses: Advanced Data Structures and Algorithms(A), Software Agility, Software Design, Software Security.

BTech. Information Technology, Cochin University of Science and Technology, Kerala, India. **GPA 8.16/10** Apr 2016

TECHNICAL SKILLS

Programming Languages: Java, Python, Kotlin, Android Java, PHP, JavaScript, SQL, NoSQL, C, C++, C#
Technologies: Spring Boot, MVC, GraphQL, JPA, JMS, RESTful APIs, JSON, jQuery, JDBC, JSP, HTML5, CSS3, ReactJS, React Native
Database: NoSQL (MongoDB), Relational (MySQL, MS SQL Server, PostgreSQL)
Cloud Technologies: Docker, Kubernetes, MS Azure, GCP, AWS, CI/CD, Distributed systems, GitHub Actions, Jenkins
Tools: Git, GitHub, Bitbucket, Jira, Confluence, IntelliJ, STS, Postman, Mockito, Apache Maven, Tomcat, Kafka, Spark, Hadoop, JMeter

PROFESSIONAL EXPERIENCE

EPICS at Arizona State University: Software Engineer-Volunteer Jan 2024 - Present

- Extracted 10+ insights using **Python** to optimize online inventory management system for Mid East Canadian Pharmaceutical.
- Building robust data processing pipeline using Apache Kafka, Spark and Hadoop to process and store prescription dispensing data.

<https://getsummaryholdings.com/> : **Application Developer, ASU Library** May 2023-Aug 2023

- Architected **Java Spring Boot** application for library operations, cuts down over 46 hours of manual work per week.
- Converted to **Open-Source** Project based on recommendations from California Digital Library technical team.
- [Design Document](#), [GitHub](#), [ASU Library Instagram post](#).

IBS Software: Software Engineer, Cochin, India Sep 2016 - Oct 2018

- Streamlined development of a highly available **REST** based application service on **Azure**, having distributed system architecture with user management, reward points, reporting, and custom APIs for ANA Mileage Club loyalty program.
- Developed and implemented **API** logic using **Java Spring Framework**, Resolved performance issues, Managed deployments with **CI/CD**, Ensured thorough testing, and Prepared API documentation for seamless integration, contributing 0.3% to company GMV.
- Spearheaded development of ticket upgrade feature using **Java Spring MVC** following **Microservices** architecture for ANA Mileage Club, facilitating users to upgrade class with reward points, boosted customer ratings by 77%.
- Leveraged Scaled **Agile** framework in all phases of product development, increased team efficiency by 64%.
- Transformed TravelDoo-Expedia ticket booking dashboard by resolving over 90% bugs, performance bottlenecks, and by developing multiple user interface features in **Java**, improved time on page for average user by 2 minutes.
- Designed and executed test cases, Increased **JUnit** test coverage from 30% to over 90% for most modules.
- Saved development time by over 7 hours per week by implementing a browser extension script for mocking CRUD operations.
- Decreased production issues by 10%, Ensured code quality doing peer-code reviews, Collaborated with cross functional teams for blocker resolutions and Conducted review meetings to establish the process workflow.

PROJECTS

<https://bturnerlaw.vercel.app/> [Design Document](#), **M.S. Capstone Project**, Fall 2023
Designed **NoSQL** database with multi-cloud architecture for performance tuning. Integrated Calendly, Developed Subscriber module and Image files management. Executed **Docker** Deployment with **CI/CD pipeline on Vercel, Render, MongoDB Atlas and MS Azure**.

<https://applicationmonitor.azurewebsites.net> [Design Document](#), [GitHub](#), **Open-Source Project**, Summer 2023
Designed, Developed with **Java Persistence API** and Deployed with multi-cloud architecture, **MongoDB** database, **JWT** authentication, **Microservices** for scalability and **CI/CD** pipeline for DevOps. Applications can make POST requests to the REST API.

Android APK Malware Detection using Machine Learning [GitHub](#)
Developed an application for classifying Android APK files into benign or malign after training an ML model using **Python**.

ACHIEVEMENTS & LEADERSHIP

- ASU Startup Seed competition semi-finalist for getsummaryholdings.com. Dec 2023
- Graduate Student Assistant: TA/Grader for SER415 Software Enterprise: Inception and Elaboration. Aug 2023 - Dec 2023
- Library Aide: Grade IV part-time student worker at ASU Library Jul 2022 - Aug 2023
- Team Champion Award Jan 2017, Team Champion Award Mar 2018, issued by IBS Software.
- Team Leader and Author, [Securing Passwords from Dictionary Attack with Character-Tree](#) (**Core Java, Multithreading**)