PRIYANKA PILLAI

Tempe, AZ | (623) 273-0882 | ppillai4@asu.edu | LinkedIn

PROFESSIONAL EXPERIENCE

COLLINS AEROSPACE   **Sep 2022 - Dec 2024**
Lead Software Developer   *Bangalore, INDIA*
- API Development: Led the design and development of RESTful APIs to integrate aviation systems with external platforms, improving interoperability and reducing manual processes by 40%.
- Cloud Computing: Developed and deployed cloud-native microservices on Azure, improving application scalability, availability, and fault tolerance; supported real-time monitoring with low-latency endpoints.
- Continuous Integration & Testing: Implemented CI/CD pipelines with Jenkins and GitLab, decreasing deployment errors by 25% and reducing release cycle times from two weeks to under five days.
- Engineered a scalable microservice architecture utilizing object-oriented programming principles, resulting in a 40% reduction in data processing latency for real-time avionics systems and ensuring strict adherence to compliance.
- Engineered and deployed scalable web applications using full stack technologies, increasing system efficiency by 30% and supporting a user base growth of over 50,000 active users annually.
- Resolved performance bottlenecks and concurrency issues in multithreaded systems using advanced debugging tools and profiling techniques, improving uptime by 15%.

TATA CONSULTANCY SERVICES   **Oct 2020 - Sep 2022**
System Engineer   *Bangalore, India*
- Developed scalable Spring Boot services to process over 1 million telemetry signals daily from GE locomotives, which improved reliability, fault tolerance, and system throughput.
- Constructed RESTful APIs leveraging Spring Boot and microservices architecture, decreasing downtime event reporting latency from 15 minutes to under 2 minutes, improving system availability by 93%.
- Automated unit tests using JUnit and refined backend reliability by identifying and resolving memory leaks, race conditions, and logging gaps, which enhanced system stability.
- Outlined and implemented reusable backend modules and shared services, reducing code duplication across three enterprise apps and cutting development effort by 25%, which advanced maintainability.
- Collaborated in an 8-member agile squad using Scrum, which improved delivery timelines across six sprints with less than 2% defect rate and enhanced story point completion.

PROJECTS

Civic Issue Tracker - Android App for Public Complaints (Mobile, Geo-tagging, Cloud)
- Pioneered a mobile application using Java and the Google Maps API that enabled citizens to report civic concerns, achieving 80% accuracy in geotagging issue locations reported in the app.
- Cloud-based storage ensured real-time updates and scalability to 10K+ users.

Aerospace Maintenance Management Portal (Full Stack, Cloud, Aviation Standards)
- Led 2-person team to build a dashboard for scheduling aircraft maintenance logs. Reduced reporting time by 40% through automation and notifications.
- Conducted thorough internal audits and gap analyses to identify areas for improvement in FAA compliance; findings led to the implementation of corrective actions across 5 operational areas.

Smart HealthConnect – Healthcare Appointment & Records System
- Developed a secure, responsive healthcare platform using Next.js and MongoDB to manage appointments, prescriptions, and patient records, streamlining clinic workflows.
- Integrated and tested RESTful APIs with Postman, and maintained codebase using GitHub, enabling scalable deployments and collaborative development.

EDUCATION

ARIZONA STATE UNIVERSITY   **Jan 2025 - Dec 2026**
Master of Science, Information Technology

BASAVESHWAR ENGINEERING COLLEGE   **Aug 2016 - Aug 2020**
Bachelor of Engineering, Computer Science and Engineering

ADDITIONAL INFORMATION

- **Languages**: Python, C, C++, Java, SQL, JavaScript, HTML5, CSS3
- **Frameworks & Libraries**: Django, ReactJS, Angular, NodeJS, .NET, Tableau, AI/ML
- **Tools**: Kubernetes, Docker, Git, Jenkins, PostgreSQL, MySQL, SQLite
- **Platforms & Databases**: Linux, Windows, MongoDB, Oracle, AWS
- **Soft Skills**: Leadership, Project Management, Public Speaking, Task Management, Communication