

RIKESH PURI

Software Developer | Full Stack Engineer

CONTACT

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PROFILE SUMMARY

Highly motivated Software Developer with over 8 years of experience in full-stack development, specializing in Java, Python, and modern web technologies. As an AI-first engineer, adept at leveraging AI tools like GitHub Copilot to accelerate development, enhance code quality, and streamline documentation. Experienced in integrating Identity and Access Management (IAM) solutions, including PingFederate, PingAccess, and PingOne Protect, with a focus on Single Sign-On (SSO) onboarding, risk-based authentication, and MFA orchestration.

TECHNICAL SKILLS

Programming Languages

JAVA Python JavaScript SQL PL/SQL PHP

Frameworks & Tools

Spring Boot Spring MVC Hibernate JUnit Maven Gradle RESTful APIs Lombok Jenkins Docker

Frontend Development

Angular React Bootstrap HTML CSS JavaScript

IAM & Security

PingFederate PingAccess PingOne Protect PingDavinci SAML OAuth OpenID Connect JWT

Databases & Servers

Oracle SQL Server MySQL Apache Tomcat

AI & Automation

GitHub Copilot AI-driven refactoring AI-generated testing AI documentation Cucumber

Other Expertise

OOP GIT Microservices Risk-Based Authentication Test Automation Test Automation CI/CD

WORK EXPERIENCE

Fannie Mae

AUG 2022 - PRESENT

Software Engineer - Identity & Access Management

- Developed enterprise-grade REST APIs (SSORS) using Java and Spring Boot, enabling secure identity data retrieval from PingOne, PingDirectory, and PingFederate.
- Built and published a reusable Python package for Device Code Grant authentication, deployed to Nexus Repository, supporting CLI-based AWS token generation across teams.
- Led full-stack development of the Consent UI application (Angular frontend, Java 17 backend) integrated with PingFederate agentless adapters for secure consent collection.
- Utilized GitHub Copilot to accelerate development of backend and frontend modules, enhancing efficiency and code quality.
- Employed AI tools to generate unit and integration tests, ensuring robust and reliable codebases.
- Developed a Java-based data aggregator application to pull and process data from PingOne APIs, scheduled via cron jobs for automated monthly reporting to internal teams.

- Enhanced the Assist Application (Angular + Java) with features for secure credential uploads to AWS Secrets Manager and automated PingFederate onboarding processes.
- Wrote backend APIs for AWS Secrets Manager auto-rotation, integrating credential lifecycle management with PingOne and PingFederate configurations.
- Integrated PingOne Protect Risk Evaluation with PingAccess, tuning Risk Predictors (device profiling, geovelocity anomaly, behavioral analysis) to strengthen fraud detection.
- Built Python reporting scripts to extract MFA adoption data and user insights from PingOne CMFA and PUMA, where no direct UI was available.
- Configured PingDavinci MFA workflows, enabling flexible multi-factor authentication strategies for customer-facing applications.
- Maintained and enhanced test automation frameworks for the FMSSO team using Cucumber, supporting environment-based testing for APIs and authentication flows.

GAP Inc.

JUN 2021 - JUL 2022

Info Sec Engineer

- Onboarded applications for Single Sign-On (SSO) using PingFederate, configuring integrations with SAML, OAuth, and OpenID Connect protocols.
- Collaborated with application teams to implement secure authentication flows and troubleshoot SSO issues through server log analysis.
- Authored OGNL expressions for dynamic attribute manipulation and configured Data Stores, PCVs, and adapters in PingFederate.
- Standardized SSO configuration practices and created comprehensive system documentation for smoother maintenance.

Freddie Mac

JUL 2020 - JUN 2021

Full Stack Developer

- Led server migration projects, including analysis, testing, and validation for critical in-house applications.
- Developed scalable backend services using Java and Python, and supported frontend enhancements with Angular.
- Automated operational tasks like log parsing and IP validation using Shell Scripts.
- Created Autosys job schedules and supported CI/CD deployment using Jenkins and Docker.

Dorothy A. Johnson Center for Philanthropy

SEP 2017 - DEC 2019

Software Engineer

- Built a full-stack web portal with Java, Spring Boot, Angular, and Oracle Database, automating data ingestion and analysis for large CSV datasets.
- Created materialized views in Oracle to optimize data calculations and reporting performance.
- Documented application flows and database structures to support maintainability and knowledge sharing.
- Improved user authentication flows, fixed bugs, and participated in manual testing for production readiness.

Alignstech Private Limited

AUG 2015 - JUL 2018

Junior Software Engineer

- Developed PHP-based web applications with MySQL-backed databases and automated renewal notifications via email.
- Contributed to Android application projects through database design and development.
- Led manual testing and QA, creating effective test cases and ensuring multi-platform application quality.

EDUCATION

Grand Valley State University, MI

Master of Science in Computer Information Systems

AUG 2017 - APR 2019

Sikkim Manipal University, India

Bachelor of Science in Information Technology

AUG 2013 - JUN 2016

PROJECT

Machine Learning Image Recognition Tool

Built a lightweight ML app with a React frontend and Python backend using OpenCV and TensorFlow to recognize and classify images from small datasets with optimized performance.

VOLUNTEER EXPERIENCE

Audio and Video Assistant

Big Data Ignite 2018 – Supported speaker presentations, managed audio equipment, and coordinated stage activities.

ACADEMIC RECOGNITION

Graduate Showcase 2019: Tomorrow's Innovators Today

Presented by Grand Valley State University for the project: "Image Processing and Machine Learning in Underwater Multimedia Collections" — in recognition of academic excellence and innovation in research (April 15, 2019).

CERTIFICATIONS

SAFe Agile Certified