

Aditya Indoori

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SUMMARY

Highly motivated, customer-driven and result-oriented Software Development Engineer II with experience in designing, planning, developing, and deploying scalable and robust software solutions.

EXPERIENCE

Amazon Web Services

Seattle, WA

Software Development Engineer II

September 2022 – Present

- Lead the scoping of user-requirements, designing, planning, implementation and collaboration with product manager, principle engineer, SDE-II and SDE-I's to develop a highly scalable, active-active architecture microservice. Delivered a multi-region, resilient authN service ensuring greater than 99.95% availability for over 36 million AWS Root User Logins per week.
- Mentored and supported 4 SDEs by reviewing their design documents, advising on optimal software, security, testing and operational practices and training on latest cloud-driven software architectures and authN-authZ-security standards to reduce the overall team development time by 15% and decreasing the operational load for oncalls by around 23%

Amazon Web Services

Seattle, WA

Software Development Engineer

June 2020 – September 2022

- Lead the design, development and launch of a mobile SDK for Android and iOS to provide a unified authN and authZ experience. This ensured over a million customers using various AWS apps signed-in using the latest security practices and authN-authZ frameworks.
- Collaborated with cross-functional teams to gather requirements, design and implement solutions to reduce the overall SSO-Login latency thereby decreasing the overall login time by 10 seconds for over 5 million AWS SSO logins per week.

Daon Trusted Identity Services

Alexandria, VA

Software Engineer Intern

June 2019 – August 2019

- Developed web applications by migrating legacy spring-based applications to spring-boot that use Rest API. Used swagger for sending requests to the spring-boot services. Developed scripts to run standalone and data-driven tests using TestNG in order to test the API endpoints of the services.

GMU Department of Information Science & Technology

Fairfax, VA

Graduate Teaching Assistant

January 2019 – May 2019

- Assisted in teaching IT Problem-Solving using Computer Programming and Object-Oriented Programming using Java. Summarized the concepts, conducted labs and formulated questions for assignments.

GMU Division of Special Education & Disability Research

Fairfax, VA

Android Developer

August 2018 - December 2018

- Developed user friendly android apps that utilized android accessibility service such as talkback which eased the difficulties of people with disabilities. Predominately used Java to dynamically update the app as well as designing UI components such as relative layouts, text and image views using XML.

EDUCATION

George Mason University

Fairfax, VA

Master of Science - Computer Science

2018- 2020

Gokaraju Rangaraju Institute of Engineering & Technology

Hyderabad, India

Bachelor of Technology - Electronics and Communication Engineering

2014 - 2018

PROJECTS

Multi-Region AuthN-Service Resiliency

July 2023

- **Description:** Planned, designed and worked with multiple teams to implement an active-active architecture micro-service for user authentication to deliver a multi-region, resilient auth service built on Spring, using various AWS services like DynamoDB, Virtual Private Cloud, KeyManagementService for improving the availability of AWS Root User logins to more than 99.95% per week.

Unified Mobile SDK for Secure Authentication

February 2022

- **Description:** Provided a seamless authentication and authorization experience by creating a brand-new mobile SDK for iOS and Android which follows the modern security practices and frameworks such as asymmetric-encryption libraries, secure-storage and in-app browser based deeplinks.

SSO Latency Improvement

April 2021

- **Description:** The project reduced the overall Single-Sign-On login latency by collaborating with cross-functional teams by reducing the build artifacts, compressing the static assets of the React-based-UI and deploying it on edge-CDN-service called AWS CloudFront.

Student Survey Web Project

March 2019

- **Description:** A web project which collects student information from a webpage that was developed using HTML, CSS, JS and jQuery and implements AJAX. The data is sent to an apache tomcat server implemented using Spring MVC architecture that includes Java Servlets to process the requests. The data is stored in Oracle MySQL server accessed using JavaBeans and the processed response is displayed using JSPs.

Raspberry Pi based Ignition Control System

May 2018

- **Description:** A Raspberry Pi based vehicle security system that controls the ignition of the engine using face recognition, fingerprint recognition and alcohol breath detection. Uses python for operating the raspberry pi and open-cv library for face detection and recognition.(
https://www.youtube.com/watch?v=xtmmmbOA_z7U)

SKILLS

- **Languages:** Java, JavaScript, Typescript, Python, C, HTML, CSS
- **Frameworks & Libraries:** AWS SDK, Spring, React, Git,, JUnit, Selenium
- **Operating System:** Linux, Windows, Android
- **Tools:** Jupyter Notebook, Numpy, Pandas, Sci-Kit, TensorFlow, jQuery, AJAX, Android Studio, MATLAB, Arduino, Raspberry Pi, Monoprice Mini 3D Printer, Prusa i3 MK3 3D Printer
- **Web Application Security:** Server-Side Request Forgery, Client-Side Request Forgery, Cross Site Scripting, Open-Redirect, Remote Code Execution, SQL Injection, Template Injection

ACHIEVEMENTS

- Selected and attended Harvard University's [HPair](#) 2024 Conference - "Bringing Together The World's Leaders of Today and Tomorrow"
- Featured in Ebay Security Centre's Hall of Fame.
(https://pages.ebay.com/securitycenter/security_researchers_acknowledgements.html)
- Won 2nd place in Dell's Unbounded Hackathon
(https://www.linkedin.com/posts/angelhack_unboundedbydell-delltechnologies-hackathon-activity-6800074938326904832-U1pj/)
- Rewarded for finding various web-security bugs in HackerOne programs.
(Profile: <https://hackerone.com/drinkjavaseesharp>)
- Won the 2nd place for the best idea – "Patch", at Tech Starters GMU 2018.
- Attained the crowd favorite award for "EStyle", at Tech Starters GMU 2018.
- Awarded 1st prize for the "Android App for ECG Application", at GRIET 2015