

SHAMBHAVI SHANDILYA

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EXPERIENCE

Software Engineer Intern

Google India

May 2023 - August 2023

Bengaluru, India

- Created a feature to report progress percentage of Cross-Region Table Copy operation in BigQuery
- Worked on creating a bi-directional communication among multiple microservices using gRPC, REST APIs, and callbacks to develop a framework for progress indication
- Technologies used:** Java, Python, Google Spanner, Dagger, SQL, gRPC

Software Engineer Intern

Google India

May 2022 - July 2022

Remote

- Created a service to compare tree-like hierarchies at different timestamps and switch between them using existing RPCs
- Optimized the algorithm to work for over **one million** entities in the database considering hierarchy inheritance constraints
- Ensured **90%+ code coverage** by writing unit and integration tests
- Technologies used:** Java, Google Spanner, Guice, SQL

Software Engineer Intern

PingSafe

July 2021 - November 2022

Remote

- Created **new CSPM checks** to report security misconfigurations in the cloud infrastructure using AWS SDK
- Worked on various **SSPM checks** that report security vulnerabilities in the **MongoDB Atlas** environment
- Researched on various **security vulnerabilities in the AWS, GCP, Azure cloud** and insecure directory traversals
- Technologies used:** Node.js, AWS SDK, GCP, Azure Portal, MongoDB

PROJECTS

SecuriCash

September 2022

- Developed a web-portal to identify **security misconfigurations**, resulting in data breaches or high severity exploits in AWS cloud
- The checks identified public, unencrypted, unversioned S3 buckets, insecure Security Groups, subdomain-takeover in **Route53** and **Open VPCs** in real-time.
- Created a granular login system, with distinction in master and normal users.
- Tech Stack:** Node.js, React, MongoDB, AWS SDK

MailerPro

August 2022

- Developed a web platform, that assists in **sending, managing and analyzing bulk emails and SMS** (scaled for sending 1 crore emails)
- Implemented the user authentication and email campaigns routes, integrating with the email sending micro-service
- Developed an **algorithm to analyze the subscribing pattern** on monthly basis from a ledger-based subscribing/unsubscribing user data.
- Tech Stack:** Node.js, React, MongoDB, AWS SNS & Lambda, Twilio

EDUCATION

Integrated B.Tech and M.Tech in Information Technology

Indian Institute of Information Technology, Gwalior

July 2019 - Expected 2024

Grade Point : 8.00

All India Senior School Certificate Examination

Central Acedemy (CBSE)

2017-18

Kota, Rajasthan

Percentage : 93.8

SKILLS

Languages

C/C++ JavaScript Java SQL

Frameworks and Libraries

React NodeJS Express.js Rails Jest

RSpecs AWS SDK Docker Hadoop

Databases

MongoDB MySQL Google Spanner

Tools

Git GitHub Linux Postman

ACHIEVEMENTS

- National Runner Up** of the Smart India Hackathon (SIH) 2022.
- Secured **77th position** among 10000+ teams, in Google HashCode'22.
- Secured **89th position** among 4500+ participants in CodeChef Lunchtime.
- Secured **814th position** among more than 6000 participants in Google Codejam I/O 2021.
- Winner** of the Diamond Hacks and SheCanSTEM Hackathon among 100+ participants.
- State Topper** for 3 years (2014-2016) in National Cyber Olympiad with 10k+ participants.

POSITIONS OF RESPONSIBILITY

- Organizer and **Problem Setter** of C++ workshops teaching almost 200 students.
- DSA Mentor** at communities- Women Who Code- Delhi and Codess.Cafe
- Web Development Mentor** at Webkriti and Winter Project - a month long Website building competition with over 300+ participants