

SWETHA SHREE B. ANANTHASWAMY

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SKILLS

- **Expertise:** Database Management, Analyzing Big Data, Data visualization
- **Programming:** Python, Java, Spring-boot, Hibernate
- **Front-End Development:** HTML, JavaScript, node JS, React JS, Express, Angular JS (MEAN)
- **Database:** PostgreSQL, MySQL, MongoDB, DynamoDB
- **Tools:** Git, GitHub, visual studio editor, postman
- **Operating Systems:** Windows, Linux/Unix

EDUCATION

M.S. Information Technology

Arizona State University, Tempe, AZ

08/2021-Present (05/2023)

GPA: 4.0/4.0

B.E, Information Science

Visvesvaraya Technological University, Bangalore, India

08/2012 - 05/2016

GPA: 3.65/4.0

PROFESSIONAL EXPERIENCE

Research and Development Intern

Accu-traq, Tempe, AZ

05/2022 – 07/2022

- Implemented snack-bar functionality using ReactJS in visual studio editor, allowing administrators (users) to get quick confirmation message of uploading more than RFID 1000 tags to database, which drastically reduced user wait time for notification to 0 seconds available in git repository of Accu-traq.
- Tested the Accu-traq product to comprehend the 25+ located RFID-Tags in the inventory management system and found 10+ missed tags within the 100-meter radius.
- Maintained Accu-traq web application by fixing the bugs in the authentication page, later signing in with google, Facebook account was successful.

Software Engineer

Path Partner Technology Pvt Ltd, India

08/2018 – 03/2020

Ooma Butterfleye Smart Security Camera

- Designed and documented a complex codebase that allowed 5 to 6 EC2-servers to communicate with one another to store data accepted from mobile apps or firmware in database, publish photographs and video to amazon S3, leading to revisions of project's design.
- Executed JUnit test suits and performed debugging and troubleshooting with 100% accuracy to improve the resolution of the implementation of DB Connectors(servers).
- Migrated 100 million records from postgres SQL to dynamo dB, offloading administrative burden of OS and scaling a highly available distributed database cluster for low price, with zero production glitch in output and performance.
- Built and enhanced data visualization Tableau tool to summarize large-scale data before migrating it from postgres to Dynamo dB, providing the project manager and clients with a clear view of the data.
- Improved efficiency of the communication between camera, mobile-app, and cloud by using cloud's MQTT platform and allowing the messages to pass in both the directions, thereby average response time per message converges to around 40 milliseconds.

Automated online exam tool

- Created a performant and scalable web application using Java frameworks (Servlet and JSP's) and MySQL, allowing the company to expand its pool of candidates and make unbiased hiring decisions of 1000's of qualified candidates.
- Assessed online exam tool web server using Apache JMeter for 1000 users in a loop count of 10 for estimating throughput which measures number of candidates allowed to sit for the exam at once (1,491.193/m) and Deviation indicates stability of the application(577/m).

Neon (File Installer)

- Developed and published 3 web pages that are used for downloading installers to local systems, uploading files to S3 buckets, and displaying files with versions to the user and made those file installers available to users worldwide to expand their market.

Associate Software Analyst

Co-strategic Technology Pvt Ltd, India

02/2017 – 04/2018

PRN (Practice Resource Network)

- Developed and tested web application for appointment management system using Core Java, Micro services in Back End and React JS in front end producing high quality on-time software and increased 40% performance by discussing technical risks and identifying mitigating strategies with project manager in SCRUM meetings.

PROJECTS SUMMARY

Loan Management

08/2022

- React js was used to produce the user interface, which allows us to register new users, log them in to apply for loans, and display the loans they have previously applied for.
- Express and Node.js are used to build middleware APIs for authentication and constructing loan objects that show the loan data. We utilized two collections in mongo DB to hold the loan and user information.
- I was exposed to learning JavaScript, NodeJS, express, mongo dB, and react js in a deeper way as a result, motivated towards Full-Stack Engineering (MEAN), made me consider collaborating with a strong team in the future. .