

Aarabdh Tiwari

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About

Full-Stack Software Engineer with expertise in Java, Kotlin, Python, JavaScript, and TypeScript. Skilled in developing scalable and high-performance applications using Spring Boot, Angular, and Next.js. Experienced in backend development, cloud computing (AWS), database management (PostgreSQL, Oracle), and DevOps practices. Strong background in system design, performance optimization, and automation. Passionate about open-source contributions, technical blogging, and continuous learning. Adept at problem-solving and collaborating in agile environments to deliver robust software solutions.

Techincal Skills

- **Languages:** Java, Kotlin, Python, JavaScript, TypeScript
- **Frameworks:** Spring Boot, Angular, Next.js
- **Databases:** PostgreSQL, Oracle, MySQL
- **Tools:** AWS, Kubernetes, Git, Gitlab, SVN, Docker, Jenkins, Wildfly

Education

BITS Pilani, Goa Campus, B.E. in Electronics and Communications Engineering

2019 - 2023

Courses: Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Cryptography, Computer Programming, Digital Design.

Experience

Infor - Associate Software Engineer - Full-Stack

July, 2023 - Present

- Working in Feature and Post-Maintenance teams for Workforce Management product.
- **Tech Used:** Java (Version: 8, 11, 17), Kotlin, Angular, PostgreSQL, Oracle SQL, AWS (Amazon Web Services), Kubernetes, Jenkins, Gitlab, Java Server Pages, JProfiler
- Built end-to-end features in **Micro-Services Architecture** involving a cache and resizable pool of pods.
- Solved issues related to:
 - **Resource leaks** involving Database connections,
 - **Deadlock scenario** due to inconsistent lock ordering,
 - **Time-zone and DateTime comparisons**,
 - **Optimizing table schema** in DB via indexing and performance testing,
 - Using JProfiler to investigate, **optimizing memory usage and app performance**.

Masai School - Software Developer Intern

April, 2023 - June, 2023

- **Tech Used:** Python, AWS, API, PyQt5 | **Github link:** <https://github.com/aarabdh/AWS-Management-Suite>
- Developed Python code that analyzes AWS services used by the company using API keys.
- It returns list of services with inconsistent tags and resources being used.
- Included EC2, S3, RDS and Lambda services from AWS.
- Created GUI around the code using PyQt5 for ease of access to non-technically proficient co-workers.

Snapdeal - Data Analyst Intern

July, 2022 - December, 2022

- **Tech Used:** Apache SQL, Excel, Python (Numpy and Matplotlib)
- Used SQL, Python and Excel to analyse data, build reports, and build actionable insights.
- Implemented the revised campaigns, tracked progress.
- Learned data validation, verification and RCA techniques.

Projects

Conway's Game of Life - Implementation of the game with adjustable parameters. Live Demo - barbaad.dev/game-of-life

- **Tech Used:** Next.js, TypeScript | **Github link:** github.com/aarabdh/barbaad-dev/tree/main/lib/GameOfLife
- Created a class and function that manages all implementation related logic for adjustable parameters in game of life.
- Used Next.js to create modern UI functional with my custom implementation.

Personal Website - Blog site with posts, clicks, poems and project showcase

barbaad.dev

- **Tech Used:** Next.js, JavaScript, TypeScript, AWS SES, AWS Lambda, Tailwind
- **Github link:** github.com/aarabdh/barbaad-dev
- Created using next.js and statically deployed on **github pages**.
- Integrated with an AWS Lambda and SES that is used to send a mail on contact page.

Retry Pipelines - CLI tool that retries a given pipeline

github.com/aarabdh/retry-pipelines

- **Tech Used:** Python, Gitlab
- A simple Python CLI tool that can be used to retry failed pipelines in Gitlab.
- Born out of frustration with flakey tests stopping merge to main.

Personal

Languages: Proficiency in English, Hindi | **Hobbies:** Chess, Badminton, Photography