

NIKHIL BABY

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Education

Western Governors University

Bachelor of Science in Computer Science

Dec 2022

Salt Lake City, UT

Relevant Coursework

- Software Engineering
- Data Structures and Algorithms
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture

Relevant Experience

Scope Inc

2023 – 2024

Java Software Engineer Trainee

- Developed a full-stack e-commerce web application using Spring Boot microservices architecture. Integrated Spring Security for role-based authentication (customer and admin roles) and implemented RESTful APIs for CRUD operations on the product catalog, shopping cart, wishlist, and checkout functionality.
- Designed and developed the Angular frontend with TypeScript, HTML5, CSS3, and Bootstrap, creating a responsive and interactive user interface. Enabled seamless browsing, product search, cart management, and order placement for customers.
- Implemented admin functionalities for product management (CRUD), order tracking, and user management through a dedicated admin panel with role-based access control.
- Utilized AWS services (EC2, S3, RDS) for application deployment, static content hosting, and database management. Employed DevOps practices with Jenkins for continuous integration and deployment, and Docker for containerization.

Projects

Spam Detection System | *Python, scikit-learn, NLP*

December 2022

- Developed an AI-powered spam detection tool utilizing advanced machine learning techniques, including a probabilistic method, to discern spam and ham emails.
- Created dynamic visualizations, including pie charts, histograms, heatmaps, and a confusion matrix, to gain actionable insights into the dataset and evaluate the tool's performance effectively.
- Achieved an accuracy rate of 94% for detecting ham message and 99% for identifying spam messages through the trained and optimized machine learning model.

Routing App | *python, pycharm*

May 2022

- Developed an efficient package delivery system by implementing the Nearest Neighbor Algorithm to optimize delivery routes, ensuring timely deliveries and operational scalability.
- Designed and implemented a self-adjusting Direct Hash Table data structure, enabling constant-time lookup and retrieval of package data based on unique IDs, significantly enhancing the system's performance.
- Demonstrated adaptability by incorporating a flexible structure that accommodates the addition of new packages without requiring significant changes to the existing solution, facilitating future expansion.
- Deployed a user-friendly interface with intuitive functionalities for package lookup, status checks, and seamless program interaction, verified through rigorous testing to ensure accurate deliveries and on-time performance.

Appointment Manager | *Java, JavaFX, MySQL*

October 2021

- Developed a comprehensive GUI-based application for efficient management of customer records and appointments, featuring functionalities for adding, updating, deleting customer data, and scheduling appointments.
- Implemented an intelligent time zone management system to ensure accurate appointment tracking, automatically adjusting display times to the user's local time zone while storing data in Coordinated Universal Time (UTC) in the DB.
- Enhanced user experience by incorporating localization features, enabling dynamic translation of the application interface into English or French based on the user's computer language settings.

Technical Skills

Languages: Java, python, HTML, CSS, Typescript/JavaScript, MySQL

Frameworks: Spring Boot, Spring MVC, Spring Data, Hibernate, Bootstrap, Angular 14

Developer Tools: VS Code, Eclipse, IntelliJ IDEA

Technologies: Jenkins, Docker, Git, JUnit, AWS(EC2, S3, RDS)

Certifications

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|---|---------------|
| • CompTIA Project+ | October 2021 |
| • ITIL Foundation Certificate in IT Service Management. | December 2021 |
| • CIW Site Development Associate | July 2019 |

Experience

Amazon Fulfillment Center **03/2020 – 07/2022**

Warehouse Associate *Windsor, CT*

- Managed inventory and ensured accurate stock levels.
- Fulfilled customer orders efficiently and maintained high satisfaction rates.
- Adhered to safety protocols and maintained a clean workspace.

USPS **11/2019 – 03/2020**

PSE Mail Processing Clerk *Hartford, CT*

- Processed and sorted mail efficiently.
- Ensured timely delivery of mail and packages.

Aldi **05/2019 – 11/2019**

Store Associate *West Hartford, CT*

- Assisted customers with product inquiries and purchases.
- Maintained store cleanliness and stocked shelves.
- Operated cash registers and handled transactions.

US Post Office **08/2018 – 03/2019**

Rural Carrier Associate *McKinney, TX*

- Delivered mail and packages on scheduled routes.
- Answered customer questions and addressed concerns.
- Maintained accurate records of deliveries and pickups.

Walmart **07/2018 – 08/2018**

Tire and Battery Technician *Plano, TX*

- Serviced vehicles and installed tires and batteries.
- Assisted customers with inquiries and ensured satisfaction.

Sanmina Corporation **06/2016 – 02/2017**

Quality Analyst Technician *San Jose, CA*

- Performed quality checks and ensured compliance with standards.
- Documented findings and reported issues to supervisors.

Texas Children's Hospital **10/2007 – 06/2016**

Patient Care Assistant *Houston, TX*

- Provided patient care and assisted medical staff with procedures.
- Maintained patient records and communicated with families.

Citizenship Status

US Citizen	No work authorization/sponsorship required
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