



Khushi Zope

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https://khushizope.github.io/Khushi_Zope_Portfolio/

Skills

Programming Languages

HTML5, CSS3, Javascript (ES6), Typescript, Python, C , C++, Java, PHP

Frontend Tools:

Angular, React, Material UI, SCSS, Sass, NgRx, RxJS, Bootstrap

Backend Tools:

Node.js, Express.js, Spring Boot, Hibernate, RESTful APIs, mongoose, npm, MySQL, PostgreSQL

Web Services & API Design:

REST API, WebSocket

Testing Tools:

Karma, Jasmine, JUnit

DevOp Tools:

Jira, Docker, AWS, Git, Github

Other Tools

Figma, Sketch, Adobe XD, Wordpress, MS Office

Methodologies

Agile, Scrum, Kanban, Responsive Web Design, Web Accessibility (WCAG), Test-Driven Development (TDD), CI/CD pipeline automation.

Language

- English (C1)
- German (B1, learning)

Work Experiences

Associate Software Engineer

Tech Mahindra

Pune, India

September 2023 - November 2024

- Developed and maintained production-grade web applications using React.js, TypeScript, and Java Spring Boot, ensuring seamless integration between front-end and back-end services.
- Designed and implemented RESTful APIs, handling authentication, data retrieval, and complex business logic while ensuring security best practices.
- Worked with SQL and NoSQL databases (MySQL, PostgreSQL, MongoDB) to design and optimize schemas, write complex queries, and ensure data integrity.
- Improved system reliability by writing and maintaining unit, integration, and end-to-end tests using Jest, JUnit, and Mockito, achieving high test coverage and reducing production issues.
- Implement CI/CD pipelines with Jenkins/GitHub Actions, automating builds, testing, and deployments to ensure faster, error-free releases with minimal downtime.
- Collaborated in Agile environments, actively participating in Scrum ceremonies, sprint planning, and retrospectives to ensure timely feature releases and continuous improvements.

Backend Developer Intern

Persistent System

Pune, India

May 2022 - July 2022

- Developed and optimized RESTful APIs using Node.js, Express.js, and PostgreSQL, improving data retrieval efficiency and system performance.
- Designed and maintained database schemas in PostgreSQL, optimizing queries and implementing indexing to improve performance and scalability. Integrated authentication and authorization mechanisms using JWT and OAuth, strengthening application security and access control.
- Worked with Docker for containerized deployments, ensuring consistency across development and production environments.
- Earned acclaim for implementing proper software development practices, contributing to a seamless handover of completed task.

Web Developer Intern

AasPass Infotech

Remote

November 2021 - February 2022

- Designed and implemented a dynamic front-end interface using HTML5, JavaScript, and Angular, ensuring a seamless and interactive user experience.
- Developed a single-page application (SPA) for the client portal, improving performance and enhancing user interactions through efficient state management.
- Collaborated with UI/UX designers to convert wireframes into pixel-perfect, responsive web interfaces compatible with all modern browsers and devices.
- Integrated Git for version control and maintained code consistency through regular peer reviews, minimizing deployment errors and ensuring a smooth development workflow.

Education

Master of Science in Web Engineering

Chemnitz University of Technology, Germany

October 2024 - Present

- Software Service Engineering
- Database & Web Techniques
- Advanced Management of Data
- Machine Learning
- Cloud & web Technology
- Media Encoding

Bachelor of Engineering in Computer Science and Engineering

Savitribai Phule Pune University, India Thesis: PolyVigChat - Securing Communication

August 2019 - May 2023

Cryptosystem with Hybrid Classical Ciphers.

Grade: 1.5

- Data Structures & Algorithms
- Database & Management Systems
- Operating Systems
- Machine Learning
- Software Engineering
- Computer Networking
- Web Technology
- Internet of Things

Projects

EcoRoute Planner

Skills: Mapbox GL JS, Node.js, PostgreSQL with PostGIS, JavaScript, HTML, CSS

- Designed and developed a GIS-based web application that calculates eco-friendly routes by analyzing traffic, air quality, and green spaces to optimize commuter paths.
- Utilized advanced geospatial algorithms to compute routes, reducing computation time by 25%
- Enhanced the user interface with real-time map rendering and dynamic data updates, improving user satisfaction by 30%.

[Link: Ecoroute Planner](#)

WebScrapI

Skills: Python, BeautifulSoup, Scrapy, HTML, CSS, JavaScript, JSP, Git.

- Created a comprehensive web scraping tool for extracting structured data from websites to support market research initiatives.
- Built the tool using Python with libraries like BeautifulSoup and Scrapy for efficient and scalable data scraping processes.
- Rendered dynamic web content using HTML, CSS, JavaScript, and JSP, enabling seamless integration with the scraped data.
- Ensured maintainability and code reusability by employing modular design patterns and version control through Git.

[Link: Webscrapi](#)

TaskManagerAPI

Skills: Node.js, PostgreSQL, REST API, JavaScript, Git

- Developed a task management API that allows users to create, retrieve, update, and delete tasks with efficient filtering options based on criteria like status, priority, and due date.
- Implemented secure RESTful endpoints using Node.js and optimized database queries with PostgreSQL to ensure high performance.
- Enhanced user experience by incorporating robust validation and error-handling mechanisms.
- Delivered a user-friendly API documentation that improved developer onboarding and integration by 40%.

[Link: Taskmanager](#)