Jagdeep Singh

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Career Objective

Final year Computer Science undergraduate student with hands-on experience in backend development and a solid grasp of programming languages like Java. Aim to actively contribute in a collaborative team with problem solving abilities, adaptability, and effective communication skills.

Skills

Technical Skills

- Html, Css, Javascript, React
- Node, Express, Python, Golang
- MongoDB, SQL,
- Linux, Git, Github, AWS, Jenkins, Postman, Studio3T
- Java, Python
- Tools: Checkmarx, DataDog
- Object Oriented Programming, Operating Systems

Soft Skills

- Strong organizational and time management skills
- Communication and interpersonal skills
- Detail-oriented
- Problem Solving and Algorithmic Thinking
- Strong Debugging Skills
- Collaboration and Communication Skills

Experience

Backend Engineering Intern – Sequoia Consulting Group

April 2024 - Current

- **Security Enhancements**: Initiated and executed a comprehensive review of microservice security issues, reducing the critical and medium defects from 600 to 20, significantly improving system integrity.
- **Code Quality Improvement**: Addressed and resolved a substantial number of SonarQube issues, enhancing code quality and maintainability across critical components.
- **Repository Separation**: Collaborated on separating a monolithic service to a fully independent microservice, streamlining system architecture and enhancing modularity.
- **API Development**: Designed and implemented a wrapper api around an existing notification API, to streamline the process of sending email alerts improving the reusability of the API by abstracting its internal complexity, making it easier to integrate with new features while ensuring consistent notification delivery across internal systems.
- **Error Analysis**: Conducted in-depth analysis of 5xx error counts within microservices, identifying root causes and implementing resolutions for improved system reliability.
- **Feature Bug Resolution**: Currently collaborating with a different team to identify and rectify feature bugs and production issues, contributing to smoother user experiences and platform stability.
- **Skills Learned**: Golang, Python, FastAPI, MongoDB, Git, Github, AWS

Projects

Coffee Time

- Implemented **MongoDB**, **Express**.js, **Node**.js, and **React**.js for a robust and responsive platform.
- Developed a dynamic e-commerce website specializing in the sale of coffee and breakfast items.
- Integrated essential technologies such as **Email.js**, **JWT**, **Firebase**, **Multer**, and **Express Session** to enhance user experience.
- Enabled user-friendly registration, login, and shopping processes, allowing users to add items to the cart and place orders seamlessly.
- Implemented voucher functionality during ordering and developed an admin panel.
- Admin panel facilitates efficient CRUD operations, ensuring seamless management of all backend data for the online shop.

Friends (Threads Clone)

- Technologies Used: Next.js, TypeScript, MongoDB, Clerk, Tailwind, UploadThing
- User Authentication: Securely register and log in using Clerk, ensuring a seamless user experience.
- Community Management: Create and join communities around shared interests, each with its own rules and moderators.
- Threaded Discussions: Initiate and contribute to in-depth conversations organized in threads with clear hierarchy and replies.

Note taking app

- Developed a user-friendly note-taking app with HTML, CSS, and JavaScript, featuring note creation, deletion, and marking as important.
- Utilized browser localStorage for efficient data management and included a dedicated rendering system for organizing and accessing important notes.

Snake Game

- Developed an interactive snake game using React, JavaScript, HTML, and CSS with intuitive controls.
- Leveraged React's state management (useState and useEffect hooks) for a seamless gaming experience.
- Utilized React Router for smooth component-based navigation and added a high-score challenge feature for users to compete and improve their records.

Education

- **Bachelor of Engineering, Computer Science Engineering**
  Chitkara University
  2021 – current
  CGPA: 9.88

- **Class 12th | CBSE**
  Guru Nanak Foundation Public School
  2020 – 2021
  Percentage: 91.8

Certifications

- Red Hat Application Development I: Programming in Java EE (AD183)
  Red Hat Training and Certification, May 2023
  Skills Acquired: Core Java Programming

- Explore Machine Learning Using Python
  Infosys, February 2022
  Description: Got introduced to Regression, Classification, Clustering, ANN etc.

- C++ by Sololearn
  Sololearn, June 2022
  Skills Acquired: Practical C++

- Python for Data Science
  Sololearn, July 2022
  Skills Acquired: Numpy, Pandas, Matplotlib