PIYUSH KATYAL

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Education

Vellore Institute of Technology   **Sep. 2021 – Sep 2025**
Bachelor of Technology in Computer Science   *Bhopal, Madhya Pradesh*
(CGPA 9.12)

Ryan International School   **Apr. 2019 – Mar. 2020**
Intermediate (Senior Secondary)   *Central Board of Secondary Education*
(94.6%)

Ryan International School   **Apr. 2017 – Mar. 2018**
Matriculation (Secondary)   *Central Board of Secondary Education*
(94.4%)

Relevant Coursework

- Full Stack Development
- Database Management
- Data Structures
- Algorithms Analysis
- Cloud Computing
- Computer Networking
- Software Methodology

Experience

Ethnus Consultancy Services Private Limited   **August 2023 – November 2023**
Full Stack Developer Intern   *Remote*

- Developed a comprehensive full-stack web application aimed at efficiently tracking user expenditure and income sources, incorporating budgeting functionalities, analytics, and implementing notification features to enhance user experience.
- Created backend APIs to calculate all the financial metrics of each registered user. This involved time based segregation, monthly, weekly, yearly expenses and savings and collection of all the transactions stored in the user's account.
- Incorporated the BcryptJS library to securely hash user credentials and utilized JsonWebToken (JWT) for efficient session management and user authentication, ensuring robust data security and user privacy.
- Utilized Nodemailer to develop an email notification system for alerting users about budget exceedance and important alerts as per their income and expenditure within a particular time period.

Coincent AI   **December 2021 – January 2022**
Front End Developer Trainee   *Remote*

- Developed front-end components for e-commerce applications during training, utilizing HTML, CSS, JavaScript, and Bootstrap to create responsive and intuitive user interfaces.
- Applied modern design concepts such as glassmorphism and neomorphism in the e-commerce application, enhancing visual aesthetics and usability while adhering to project requirements.
- Collaborated using version control systems such as Git to organize modifications, assign tasks and deployments.
- Integrated the billing form with google sheets to store delivery and payment details of all the customers.

Projects

Personal Finance Tracker | *NodeJS, ReactJS, MongoDB, REST APIs*   **November 2023**

- Developed a full-stack web application aimed at efficiently managing and monitoring expenses and income streams.
- Implemented robust authentication mechanisms utilizing JsonWebToken (JWT) for secure user sessions, complemented by BcryptJS for the encryption of user credentials before database storage, ensuring enhanced data security.
- Addressed budgetary concerns by integrating Nodemailer library, enabling the automated dispatch of notification alerts to users upon exceeding predefined budget thresholds.
- Facilitated the deployment of the frontend division on Vercel and the backend division on Render, ensuring seamless integration and functionality through REST APIs for streamlined data exchange.
- Project Deployment:

    Frontend: https://finance-tracker-frontend-self.vercel.app
    Backend: https://github.com/piyushk77/finance-tracker

Automated Report Conversion Tool | *JavaScript, HTML, CSS, Vercel*   **December 2023**

- Developed an automated report conversion tool for a sugar industry client, aiming to reduce delays caused by manual conversion of text reports to Excel format.
- Leveraged JavaScript to enable users to upload text files and seamlessly convert them to Excel format with a single click.

- Utilized the ExcelJS library for parsing and arranging data, ensuring accurate conversion of specific report formats within seconds.
- Incorporated error handling mechanisms to alert users in case of file selection errors or conversion failures, enhancing user experience and reliability.
- Project Deployment:

  Vercel: https://dcm-conversion.vercel.app
  Github: https://github.com/piyushk77/dcm-conversion

Technical Skills

Languages:

Advanced: C++, Javascript, HTML, CSS, SQL
Intermediate: Python, Java

Technologies/Frameworks: NodeJS, ReactJS, Express, MongoDB, MySQL, JQuery, Bootstrap

Developer Tools: Amazon Web Services, Linux, Git, Bash, Vercel, Render

Achievements / Extracurricular

Leetcode   **January 2024 - Present**

Rank: 590834   *100+ Problems*

- Successfully completed a challenging 100 days of code challenge, maintaining an unbroken streak and solving over 100 problems on LeetCode.
- Garnered recognition through various badges, including monthly coding badges for January, February, March, and April, along with the 50 days of code badge and 100 days of code badge.

Hacktoberfest 2023   **October 2023 - November 2023**

Open Source Contributor   *@TheAlgorithms*

- Contributed to @TheAlgorithms repository by developing multiple mathematical and conversion algorithms in JavaScript, enhancing the repository's functionality and versatility.
- Implemented rigorous testing procedures utilizing the Vitest testing framework to ensure the robustness and reliability of each algorithm, substantially improving code quality and maintainability.
- Recognized for notable contributions, earned the Hacktoberfest digital reward kit, and secured a place on the Holopin Hall of Fame board, showcasing dedication to open-source collaboration.