AAYUSH DUBEY

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Full Stack Developer with three years of experience crafting innovative solutions for PaaS applications. Proficient in Javascript, TypeScript, Python, Java, Vue, Angular and SQL with a proven record of optimizing database designs, integrating cutting-edge technologies, and leading successful migrations. Recognized for strategic thinking and proactive problem-solving. Holds a Bachelor's degree in Computer Science and Engineering with SAFe 5 and Python certifications.

Experience

Kearney   **August 2023 – Present**
Full Stack Developer   *Bengaluru, India*

- Kearney is a global management consulting firm, recognized for its strategic insights and solutions.
- Valued member of "SOFAC" team, responsible for end-to-end development of PaaS applications such as Benchmarks, Power-Pulse, and Procurement-GPT to optimize supply chain activities.
- Implemented key features like Single Sign-On (SSO) login via Azure AD, real-time data streaming through websockets, token authorizations, multi-threading, URL tampering fortification and Azure OpenAI integration in chatbots.
- Successfully optimized database design, significantly reducing I/O operations, and improving overall application efficiency.
- Applied my knack for RnD to beat the trivial triage strategies by reverse engineering.
- Leveraged Azure web app to deploy the web application.

Amadeus Software Labs   **January 2021 – August 2023**
Software Development Engineer - II   *Bengaluru, India*

- Amadeus Software Labs is a leading technology company renowned for its cutting-edge software solutions and services that empower travel agencies, airlines, hotels and the tourism industry.
- Developed various reusable and decoupled modules with Angular in the BFC team on "Selling Platform connect" PaaS that is used by 1 million+ Travel agents.
- Implemented custom design factory components to be used across all products, resulting in improved user experience and uniformity throughout the product and reliability in its performance.
- Feature lead for the migration of the ticketing module to Angular flow from legacy Java flow - crucial step enhanced system performance, improved user experience, and aligned with modern development standards.
- Enhanced error display by integrating a floating, draggable content viewer for seamless content viewing without workflow disruption.

Projects

Benchmarks | *Vue, Python, Flask, Tailwind, SQLAlchemy, Azure*   **August 2023**
- Industrial benchmarks solution for Fortune 500 clients which helps to drive performance insights.
- Re-architectured the frontend design to scale performance - Introduced varnish for HTTP caching.
- Revamped the relational database to make indexing queries more efficient.
- Build custom wrappers for currency conversions which helped to save a lot of money value for the project.

Control Tower | *Angular, Vue, Python, Flask, SQL, Azure*   **November 2023**
- Supply Chain Brain to monitor and remediate shortfalls in the chain driven by proprietary artificial intelligence models.
- Implemented Dynamic Templating for multiple screens as the variables in terms of modules were massive.
- Rewrote the Backend framework from scratch converting Flask to Fast Api to handle streaming workloads.
- Part of the LLM powered chatbot which increased the valuation of the product close to 500K USD.
- Executed a strategic migration from Angular to Vue.js reducing the bundle size and leading to faster runtime performance.

Power Pulse | *Python, Flask-RestX, Javascript, Vue*   **October 2023**
- An industrial machinery monitoring tool designed to enhance operational values for optimal yield and throughput.
- Built an autonomous system that reads sensor values periodically, leveraging ML optimization models for real-time optimization, resulting in enhanced operational efficiency and maximum yield.

- Integrated a dynamic dashboard feature to visualize and analyze trends over time, providing stakeholders with valuable insights into machinery performance.
- Designed and implemented both the front end and backend API using REST architecture, contributing to a robust and well-integrated system.

World on wheels | *Python, Flask-RestX, PostgreSQL, Tailwind* **January 2024**
- Developed a comprehensive car rental service encompassing distinct user journeys for customers and administrators.
- Integrated Razorpay payment gateway to facilitate secure and streamlined online transactions within the car rental service.
- Implemented additional features allowing the generation and printing of invoices, enhancing the overall service functionality.
- Integrated Google Analytics for administrators to provide valuable insights into user behavior, enabling data-driven decision-making and further enhancing the service's performance and user experience.

Weapon Detection using CCTV | *Python, SQL, RCNN, Anaconda, VS Code* **January 2021**
- Developed a weapon detection system for enhanced public safety.
- Leveraged computer vision algorithms and deep learning techniques to detect weapons like guns and knives using real-time CCTV footage.
- Automated the system to send SOS messages directly to authorities with the image and the address of the incident, reinforcing security measures in crowded areas.

Technical Skills

Languages: Python, Java, C/C++, JavaScript, TypeScript, HTML/CSS, SQL
Frameworks/Libraries:Vue, Angular, Flask, Flask-RestX, Django, SpringBoot, RxJS, NgRx, Redux
Tools and Technologies: Git, Github, AzureDevOps, Bitbucket, Jenkins, Jira, Bootstrap, Tailwind, VS Code, Eclipse, Anaconda
Databases: MySQL, PostgreSQL, SQL Server, MongoDB

Certifications

SAFe 5 Practitioner: Scaled Agile Inc, Credential ID: 18093514-1372
NPTEL Python: IIT Madras, Credential ID: 19CS41S51910110
Applied Data Science with Python: IBM
Machine Learning with Python: IBM
Data Analysis with Python: IBM
Data Visualization with Python: IBM

Education

Amity University, Noida **Sep 2017 – May 2021**
Bachelor of Technology in Computer Science and Engineering *9.39 CGPA, University Medalist*

Kendriya Vidyalaya, Hindon **Apr 2015 – Mar 2027**
All India Senior School Certificate Examination *9.40%, School Topper*

ACHIEVEMENTS

- High Flyer Award - Amadeus
- AYF Coding Competition - Winner
- Top Performer Award - Kearney
- Crowd Strike Hackathon - Rank 128
- 6 Star Coder: Hackerrank
- Google KickStart 2020: Global Rank 4307