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Software Engineer | Machine Learning Engineer

Software Engineer with +7 years of experience in developing software solutions. I specialize in backend and frontend development, cloud computing, database management, and leveraging modern technologies like **Python, Next.js, Node.js, AWS, Docker, and GraphQL** to build scalable, efficient, and impactful systems. Throughout my career, I have delivered high-impact projects across diverse industries, including **machine learning, e-commerce, and healthcare**. My experience includes developing predictive models for credit risk analysis, designing image classification systems, building ELT pipelines to uncover actionable insights in e-commerce, and creating robust backend and responsive frontend solutions for healthcare applications. I have also contributed to software quality assurance through test automation, leveraging tools like **Selenium, Cucumber, and Ruby on Rails** to ensure reliability and performance. My leadership experience includes serving as a squad lead, overseeing team coordination and project delivery. I am passionate about exploring cutting-edge technologies, solving complex problems, and continuously growing as a developer.

Work Experience

Machine Learning Engineer at Anyone AI

Nov 2024 to date

- **Image Classifier System:** Currently working in developing a system that can receive images and return a prediction of the content of the image.
- **Home Credit Risk Analysis:** Predicted whether a person applying for home credit would be able to repay their debt or not. Manipulated and visualized data and performed data pre-processing for a large dataset of over 350,000 transactions. Trained multiple supervised models, achieving a ROC-AUC score of over 0.75. Models used included Random Forest, XGBoost and LightGBM. I was selected as squad lead for this project, overseeing team coordination and delivery.
- **E-Commerce Data Pipeline:** Developed an ELT pipeline to collect and integrate e-commerce data for a specific season from multiple sources into a centralized data warehouse. Designed and executed complex SQL queries to link datasets, extract key insights, and analyze relationships between variables. Uncovered significant patterns, such as the correlation between holidays and purchase order creation dates. Leveraged visualization using python libraries to create compelling visual representations of findings, facilitating clear and actionable insights.

Main Technologies: Python, SQL, Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Docker, AWS, Streamlit, FastAPI, Redis.

Software Developer as Freelancer

2024 to date

Healthcare Project with Next.js

- **Backend Development**

- Defined schemas using Keystone.js and implemented GraphQL communication with the Apollo Client.

- Designed and optimized database schemas, managed data relationships, and implemented custom resolvers to handle complex data fetching and manipulation tasks.
- Optimized database queries to ensure efficient data retrieval and storage.
- **Frontend Development**
 - Developed and implemented reusable Next.js components for new features, including authentication mechanisms and statistical chart generation.
 - Handled form submissions and crafted GraphQL queries and mutations for seamless interaction with backend services.
 - Designed responsive and dynamic user interfaces to ensure a smooth user experience across various devices and screen sizes.
- **Collaboration and Problem-Solving**
 - Worked closely with team members to understand project requirements, propose innovative solutions, and iterate on implementations to meet objectives.
 - Contributed holistically to the project's success by integrating backend and frontend expertise to deliver robust and feature-rich healthcare solutions tailored to end-user needs.

Main Technologies: Javascript, Nextjs, GraphQL, Typescript.

Software Developer at vLex Networks

Jun 2017 to Nov 2023

- Collaborated remotely as an integral part of a cohesive and collaborative team, maintaining a friendly demeanor and proactive attitude toward listening and learning.
- Engaged actively with team members to contribute effectively to collective project goals.
- Acquired hands-on experience with essential cloud computing and version control technologies, including AWS, Git, Docker, and Azure.
- Grasped the fundamentals of cloud infrastructure management, source code versioning, containerization, and deployment strategies.
- Applied newly acquired knowledge to streamline development workflows, enhancing project scalability and reliability.
- Expanded technical expertise in Node.js development, focusing on server-side JavaScript programming.
- Built robust and scalable backend solutions leveraging Node.js' asynchronous, event-driven architecture.
- Explored Node.js frameworks, libraries, and best practices to strengthen proficiency in building efficient server-side applications.
- Fostered a positive and collaborative remote working environment that promoted continuous learning and innovation.
- Contributed to the project's success by leveraging tools such as AWS, Git, Docker, Azure, and Node.js while enhancing skills as a versatile developer.

Main Technologies: Javascript, Nodejs, AWS, Docker, Azure.

Software Developer at v1 Services

Jun 2017 to Nov 2023

- Developed and executed automated testing tasks using Selenium and Cucumber to ensure software quality and stability.
- Learned and applied scripting languages, including Ruby and Perl, to create efficient and reliable test scripts.
- Maintained and enhanced the company's main web application built with Ruby on Rails, implementing new features and resolving issues to optimize user experience.
- Optimized performance of the Ruby on Rails application by identifying bottlenecks and refining code for a seamless user interface.

- Managed the MySQL database, including query optimization, backup execution, and performance monitoring to ensure data integrity and operational efficiency.
- Collaborated with cross-functional teams to identify and address system requirements, improving overall development workflows.
- Balanced responsibilities between automated testing, system maintenance, and database management, delivering a comprehensive approach to software quality assurance.
- Contributed to the project's success by ensuring software reliability and stability through a focus on development, testing, and system maintenance.

Main Technologies: Python, Selenium, Cucumber, Ruby, Perl, ROR, Mysql.

Skills

Tech Skills: Javascript, Python, Selenium, ROR, Cucumber, Perl, Nodejs, Docker, AWS, Azure.

Agile Methodologies: Scrum

Languages: Spanish: Native, English: Fluent

Education

Universidad Nacional del Centro de la Provincia de Buenos Aires

2000 - 2008

Bachelor's Degree in Systems Engineer