



Process Solution Software Engineer, Research IT Process Data & Orchestration

Email Address james.peirano@bms.com



Miranda Gardner (00114821)

Manager

Location San Diego Campus Point - CA

Supervisory Organization Evaluation (Miranda Gardner (00114821))

Job

Job Details

Job Details

Employee ID	00603415
Supervisory Organization	Bristol Myers Squibb (Christopher Boerner (00373818)) >> Evaluation (Miranda Gardner (00114821))
Position	38098017 Process Solution Software Engineer
Business Title	Process Solution Software Engineer, Research IT Process Data & Orchestration
Job Profile	EG-100 - Information Technology / Systems Architecture
Employee Type	Permanent
Management Level	5 Professional
Time Type	Full time
FTE	100.00%

Location San Diego Campus Point - CA
Hire Date 01/30/2023
Original Hire Date 01/30/2023
Continuous Service Date 01/30/2023
Years of Service 1.45
Time in Position 1.45 year(s)
Time in Job Profile 1.19 year(s)

Contact Information - Public

Email james.peirano@bms.com

Work Address

10300 Campus Point Drive Suite 100
San Diego, CA 92121
United States of America

Website <http://www.linkedin.com/in/james-peirano-0a479a154>

Service Dates

Hire Date 01/30/2023
Original Hire Date 01/30/2023
Continuous Service Date 01/30/2023
Years of Service 1.45
Benefits Service Date
Company Service Date
Seniority Date 01/30/2023
Union Seniority Date

Management Chain**Supervisory Management Chain**

Organization	Manager	Phone Number
Bristol Myers Squibb (Christopher Boerner (00373818))	Christopher Boerner (00373818)	+1 609-252-6719 (Telephone)
Chief Executive Officer Team (Christopher Boerner (00373818))	Christopher Boerner (00373818)	+1 609-252-6719 (Telephone)
Information Technology (Greg Meyers (00558376))	Greg Meyers (00558376)	
Research IT (William Mayo (00606899))	William Mayo (00606899)	
Applications (Antonia Russell (00480288))	Antonia Russell (00480288)	+1 (215) 272-7821 (Telephone)
Evaluation (Miranda Gardner (00114821))	Miranda Gardner (00114821)	+1 609-252-3338 (Telephone)

Organizations**Member of These Organizations**

Organization	Organization Type	Organization Subtype
0020 E.R. Squibb & Sons,L.L.C.	Company	Company
8010226 Rsrch IT Application	Cost Center	Cost Center
0020 E.R. Squibb & Sons,L.L.C.	Cost Center Hierarchy	Company Code
CA04 PSA San Diego Campus Point - CA	Location Hierarchy	Country
United States of America	Location Hierarchy	Country
UB - 0020	Pay Group	Pay Group
US/PR - 0020	Payroll Organization	Pay Group
Not Applicable	Region	Region
Information Technology	Reporting Business Unit	SUB-RBU
Evaluation (Miranda Gardner (00114821))	Supervisory	Supervisory

Career

Job History

Job History

Job Title	Company	Start Date	End Date	Location	Responsibilities and Achievements	Edit Job History	Remove Job History
Data Scientist	Amerihealth Caritas	01/01/2022	01/01/2023	Remote	<ul style="list-style-type: none"> • Overview: Served as a Solutions Architect and Machine learning expert • Technologies Used: Anaconda, Docker, python, Git, TensorFlow, PyTorch, Scikit-Learn, NumPy, Pandas, NLP, Matplotlib, Jupyter Notebook, Selenium, BeautifulSoup, SQL, mySQL • Key Achievements: <ul style="list-style-type: none"> ▪ Developed and maintained an internal data pipeline automation tool resulting in a process time reduction from 45 minutes to 5 minutes. ▪ Spearheaded the design, development, and maintenance of data models ensuring high-quality data through meticulous cleaning and pre-processing. ▪ Developed and implemented data models tailored to diverse business needs, including versioning, re-training, and accuracy monitoring. ▪ Programmed machine learning algorithms using Python and R, specializing in K Nearest Neighbors, Logistic Regression, and Decision Trees for predictive modeling. Applied these techniques to perform risk assessment and predictive analysis for patient care in healthcare settings leading to decisions made by the company in excess of \$10,000,000. ▪ Led a hospital record study on the impacts of Covid-19 lockdown on drug and alcohol abuse and conducted statistical analysis to derive actionable insights from the data. 		

Job Title	Company	Start Date	End Date	Location	Responsibilities and Achievements	Edit Job History	Remove Job History
Technology Consultant	Criptiq	05/01/2017	01/01/2022	Remote	<ul style="list-style-type: none"> • Overview: Engaged with startups to architect, develop, and deploy innovative cloud-based solutions, driving them from conception to production. Specialized in leveraging cutting-edge technologies to enhance user interaction and operational efficiency across various domains. • Technologies Used: MongoDB, NodeJs, Javascript, Python, Docker, Azure, Flask, Django, ECS, Lambda, API Gateway, DynamoDB, S3, Cognito, GitHub Actions, Docker-Compose, Terraform, MongoDB, Xata(SQL), AWS Cognito, IAM • Key Achievements: <ul style="list-style-type: none"> 1. Ping: Social Interaction and Networking Platform <ul style="list-style-type: none"> ◦ Authentication and User Management: Implemented AWS Cognito with a hosted UI for secure user sign-up and sign-in processes, integrating Google OAuth for enhanced accessibility. ◦ Microservices Architecture: Adopted AWS ECS and Fargate for deploying docker containers, significantly enhancing system scalability and management efficiency. ◦ User Profile and Data Handling: Utilized AWS DynamoDB for robust data storage and AWS S3 for multimedia content management. Implemented signed URLs for timed access to user profiles, ensuring security and privacy. ◦ Appointment Scheduling Integration: Developed a calendar UI that interacts with AWS Lambda to update database entries automatically when someone schedules an appointment through a scanned 		

Job Title	Company	Start Date	End Date	Location	Responsibilities and Achievements	Edit Job History	Remove Job History
					<p>Ping card. This system is integrated with Google Calendar, enhancing user convenience by syncing scheduled appointments.</p> <ul style="list-style-type: none">Scalability and Security: Ensured full scalability of the platform through the use of cloud-native technologies and maintained high security standards by implementing encryption at rest and in transit. <p>2. AI Flicks – Text-to-Image Web Application</p> <ul style="list-style-type: none">Architected and launched an AI-powered application on Azure, utilizing Hugging Face for generating images.Implemented full-stack solutions with JavaScript, Flask, MongoDB; integrated Teemill and Stripe for e-commerce.Leveraged asynchronous techniques and Docker for enhanced scalability and response times. <p>3. MatchMatic: AI-Powered Dating Chatbot and Matchmaking Service</p> <ul style="list-style-type: none">Architected an end-to-end AI dating service combining predictive analytics with conversational AI.Developed a conversational agent powered by LLM and LangChain, with user data encoded into vector embeddings for efficient matchmaking.Implemented a user-friendly UI with Gradio, focusing on accessibility and engaging interactions		

Education

Education

School	Degree	Field of Study	Edit Education	Remove Education
Rowan University	Bachelors (BS, BA)	Computer and Information Science		

Skills

Skills

Docker (Software)

AWS DynamoDB

AWS Lambda

GitHub Actions

Jupyter Notebook

MongoDB

Python Numpy

Tensorflow

Terraform

AI Architecture

Amazon API Gateway

Amazon CloudWatch

Amazon Cognito

Amazon Elastic Compute Cloud (Amazon EC2)

Amazon S3

Amazon Sagemaker

Amazon Web Services (AWS)

API Gateway

AWS Amplify

AWS CloudFormation

AWS Cloud Operations

AWS Codepipeline
AWS Elastic Beanstalk
AWS Fargate
AWS Step Functions
Azure Devops
Azure Stack
CI/CD
Django Web Framework
Docker Containers
Dockerfile
Docker Kubernetes Administration
Docker Kubernetes Architecture
Docker Swarm
Flask (Web Framework)
GitHub
GitLab
GitLab CI/CD
Git Svn
JavaScript (jQuery)
Java Selenium
Java Testing
Java Web Development
Large Language Model (LLM) Fine-Tuning

- Large Language Models (LLMs)
- Linux Architecture
- Pandas Python Library
- Process Engineering - Python Modeling
- Python
- Python Automation
- Python for Data Analysis
- Python Matplotlib
- Python Requests
- Python Software Development
- Python Sqlite3
- Structured Query Language (SQL)
- SVN Repository
- Terraform on Microsoft Azure
- Vector Databases

Work Experience

none entered

Languages

none entered

Certifications

none entered

Career Interests

Thanks for looking, but there's nothing to see here.

Relocation

none entered

Travel

none entered

Development Plans

Development Plan

AWS DevOps Expertise

Additional Information

I would like to take the opportunity to learn more about AWS technologies at BMS along with BMS tailored process flow for development in the cloud.

Status

In Progress

Professional Profile

View Upcoming Absences

Upcoming Absences

No upcoming absences in the next 30 days.