AI SOFTWARE ENGINEER

FIRM PROFILE

Since its inception in 1963, BCG has been at the forefront of business management. We take pride in seeing our ideas successfully implemented. Many of our deepest client relationships have been with companies that transformed their industries. This tradition of transforming businesses and industries continues to motivate us today.

BCG GAMMA

BCG GAMMA designs and builds powerful analytics-based solutions designed to help our clients tackle their most pressing business problems. We are an interdisciplinary team of data scientists, engineers and BCG consultants, collectively delivering a unique combination of domain expertise, analytics know-how, and leading technologies. Our teams own the full analytics value-chain end to end: framing new business challenges, building fact-bases, designing innovative algorithms, creating scale through creating tools and apps, and training colleagues and clients in new solutions. BCG GAMMA is a global capability, working with clients in every BCG region and in every industry area. The team partners with BCG practices, including Operations and Marketing, Sales, and Pricing. GAMMA is a core member of a rapidly growing analytics enterprise at BCG – a constellation of teams focused on driving practical results for BCG clients by applying leading edge analytics approaches, data, and technology.

OVERVIEW OF GAMMA ENGINEERING:

The GAMMA Engineering team is building the next generation of analytics tools. Clients need to easily interact with our analytics applications to measure the success of their new analytics enabled organization or quickly make decisions based on what and how they see analytic output. Our clients will use our analytics solutions to derive insights around business trends. We “open the doors” to data for our clients giving them fast and trusted options to search, frame, and share data.

POSITION SUMMARY:

As an AI Software Engineer, you will be responsible for advancing software solutions and analytics to support BCG GAMMA’s analytics clients and platform. Your strong analytical skills and ability to develop innovative problem solving solutions will support mission critical decision analytics for our Fortune 500 clients. Additional responsibilities will include developing feature enhancements to our platform, developing industry-leading analytics software solutions and methodologies and provide talks and papers in industry leading conferences on behalf of BCG GAMMA. We’re looking for talented individuals with a serious commitment to software development, data science, large data analytics and transforming organizations into analytics led innovative companies. As a new division in process of creating an innovative platform, we have many opportunities available throughout our GAMMA team.
BASIC JOB RESPONSIBILITIES:

- Apply leading software development practices and standards to develop robust and maintainable software
- Develop abstract analytic models to solve complex problems for decision analysis
- Maintain an active role in every part of the software development life cycle
- Guide non-technical teams and consultants in understanding analytics at scale, infrastructure as code and best practices for robust software development
- Optimize and enhance computational efficiency of algorithms and software design
- Design data structures and visualization of results to provide users actionable intelligence and situational awareness of supporting data
- Interact directly with clients on new features for future product releases
- Share software design and solutions ideas
- Communicate technical design verbally and written

BASIC JOB REQUIREMENTS:

- Degree in Computer Science or relevant field
- Experience in a software development environment – advanced degrees may be weighted towards years of experience
- Proficiency with analytic software programming ideally in python, c++, or scala
- Familiarity with data science methods and scaling data science methods
- Proficiency with infrastructure as code principles
- Familiarity with the storage, manipulation and management of relational, non-relational and streaming data structures
- Analytic reasoning and complex problem solving involving mathematical programming and big data problems
- Understanding of parallel computing

STRONGLY PREFERRED:

- Ability to thrive in a fast-paced, start-up like development environment
- Experience working with global and remote teams
- Experience in GO, Java, Scala, JavaScript, TypeScript
- DevOps: Docker, Kubernetes, CI/CD, Terraform, unix-based command line
- Full stack development: GraphQL, React
- Data: SQL, Spark, Hadoop
- Data Science and machine learning (Pandas, Scikit learn)
- Deep learning (Tensorflow, Keras etc.)
- Cloud: AWS/Azure/Google

KEY COMPETENCIES

- Technical and functional expertise, problem solving, analytical skills and decision making
• Self-motivated, takes initiative, possesses creative problem-solving skills and willingness to offer suggestions for improvement; builds relationships to leverage resources
• Demonstrated diligence, attention to detail and technical intuition.
• Exercises judgment in managing confidential/sensitive information; trustworthy
• Customer and business focus, people management, values and ethics
• Must be able to perform successfully in a fast-paced, intellectually intense, service-oriented environment and to interpret rules and guidelines flexibly to enhance the business and in keeping with BCG’s values and culture.
• Experience working successfully within a complex matrix structured organization is essential.
• It is necessary to have the ability to understand and manage complex reporting relationships and incorporate multiple labor laws and cultures.

WORK ENVIRONMENT:
• Fast-paced, intellectually intense, service-oriented environment
• Optimal locations are New York, Washington DC, Boston, Los Angeles, Chicago, Seattle, Toronto, San Francisco
• Expect up to 40% - 75% of time spent traveling

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