Brendan Eóghan Connelly

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Career Objective

I have spent my career designing and implementing innovative cloud-native software solutions within the AWS infrastructure. This has led me to work on projects involving large-scale cloud data, monitoring and visualization, system and data resiliency, disaster recovery, enterprise cost containment, and application modernization. As a dedicated and meticulous senior software engineer, delivering an optimal solution that will stand the test of time is of paramount importance to me. I am seeking a position in which I can attack challenging problems and work with cutting edge technologies.

Work Experience

The Vanguard Group, *Developer III - Cloud Backup as a Service*
Dec 2023 - Apr 2023

- ➢ Contributed to the team's existing backup service offerings by implementing automated Backup plans for RDS Aurora.
- ➢ Collaborated with Architects and Technical Leads to develop a robust, custom code solution for point-in-time data recovery for Amazon DynamoDB.
- ➢ Used Amazon States Language to create fault-tolerant AWS Step Functions for the cross-account export and recovery of DynamoDB table data as part of the point-in-time recovery solution.
- ➢ Created an AWS Glue ETL job to read DynamoDB table data exports from S3 and write them to a secondary account as part of the point-in-time recovery solution.

The Vanguard Group, *Developer II - Cloud Storage as a Service*
Feb 2023 - Dec 2023

- ➢ Altered vendor-provided code and integrated it into our pipeline, allowing clients to make configuration changes via code to manage their ONTAP infrastructure.
- ➢ Collaborated with GTO clients, providing daily support to deliver a custom solution that satisfied all of their requirements.
- ➢ Refactored S3 migration service codebase to make code more readable and user-friendly.
- ➢ Created custom documentation outlining cost reduction strategies and general guidelines for S3 and EBS.

The Vanguard Group, *Developer II - Data Replication as a Service*
Nov 2020 - Feb 2023

- ➢ Designed and implemented a contingency architecture, allowing internal clients to maintain Amazon EC2 instances in multiple regions in case of disaster or AWS failure.
- ➢ Collaborated with architects to deliver an innovative, custom solution for Amazon Kinesis cross-region data replication.
- ➢ Developed a process to scale and delete clients' server resources to support enterprise cost containment measures.
- ➢ Leveraged Boto3 to develop an AWS Lambda application solving the issue of the lack of native autoscaling for Amazon Kinesis streams.

- ➢ Updated DB2 drivers on clients' EC2 instances to ensure that they remained supported by IBM and internal teams.
- ➢ Designed and implemented a process to handle log maintenance on clients' EC2 instances, resulting in decreased storage expenditure.
- ➢ Trained and onboarded five new coworkers on key components of the team's architecture and codebase.
- ➢ Continued and strengthened all responsibilities from Developer I role.

The Vanguard Group, *Developer I - Data Replication as a Service*
Aug 2019 - Nov 2020

- ➢ Enhanced existing code to integrate with Qlik Enterprise Manager for real-time and historical data replication analytics used for monitoring, maintenance, and capacity planning.
- ➢ Developed logic to allow clients' EC2 instances to register with a centralized instance for monitoring and support purposes.
- ➢ Created client-ready AWS CloudFormation templates for deployment of Amazon S3, Kinesis, and Aurora PostgreSQL data replication endpoints.
- ➢ Coordinated with the vendor to troubleshoot issues with their software.

Technical Skills

Programming Languages: Python, Java, JavaScript, Powershell, C
Technologies: AWS ecosystem & development, Bamboo & BitBucket, git, GitHub, JIRA, bash/Linux, Android development
Data Encoding/Markup: JSON, YAML, Markdown, HTML, CSS
Technical Skills: Software design & architecture, APIs, Databases, Documentation, Code quality, OOP principles, Scripting

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Education

TEMPLE UNIVERSITY, College of Science & Technology
Bachelor of Science in Computer Science
Graduation: May 2019