

Brendan Eóghan Connelly

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Objective

A dedicated and meticulous engineer with in-depth experience with data replication and cloud-native applications, seeking challenging problems and an innovative working environment.

Work Experience

The Vanguard Group, Cloud Engineer

Nov 2020 - Present

- Designed and implemented a contingency architecture, allowing internal clients to maintain Amazon EC2 instances in multiple regions in case of disaster or AWS failure.
- Nearly eliminated failover RPO and RTO by designing and implementing a custom, automated solution to resume data replication.
- 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 auto scaling 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.
- Upheld DevOps principles in collaboration with project manager, fellow team members, and internal clients.
- Created robust test cases and wrote detailed documentation for new software features.
- Continued and strengthened all responsibilities from Developer I role.

The Vanguard Group, Developer I

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.
- Eased client pain points by implementing a CI/CD Bamboo deployment pipeline.

- Provided around-the-clock support for the software platform, ensuring availability of internal and external applications and data.
- 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.

Education

TEMPLE UNIVERSITY, College of Science & Technology

Bachelor of Science in Computer Science

Graduation: May 2019

Technical Skills

Programming Languages: Python, Java, PowerShell, JavaScript, C

Technologies: Amazon Web Services (AWS), Android Programming, Linux, Boto3, Qlik Replicate/Enterprise Manager, APIs, Bamboo, git, BitBucket & GitHub, JIRA

Skills: Software Design & Architecture, Technical Documentation, Code Quality, OOP Principles, Interpersonal Communication

Technical Projects

hooT: Alexa Skill for Canvas, Node.js,

Jan - May 2019

A skill for Alexa compatible devices that allows users of the Canvas Learning Management System to interact with their accounts in a "hands-free" manner

- Designed and implemented the functionality providing a user with their course and assignment grades.
- Collaborated with a team of five to plan for, design, and implement the project under a strict time constraint, using AWS Lambda, the Amazon Skills Kit, the Axios library, and the Canvas LMS API.

Help!: A Volunteering Outreach Application, Java & PHP,

Jan - May 2019

An android application for posting and registering for personal volunteering opportunities

- Designed the project's infrastructure including the back and front end design.
- Implemented the application's front and back end, linking the two with the Volley library.