**Jacob Beckstrom**

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**PROFESSIONAL EXPERIENCE**

**Thomson Reuters Eagan, MN**

**Software Engineer July 2021-Present**

* Designed and developed components for deployment and automation tools written in Python and TypeScript using AWS SDK, CDK and the Serverless Application Model.
* Automated the deployment of AWS resources in a repeatable and predictable manner using Infrastructure as Code tools such as CloudFormation, Sceptre and Troposphere.
* Implemented Fault-tolerant and cost-optimized CICD Pipelines using CodePipeline, CodeBuild, Lambda, Step Functions, DynamoDB and S3.
* Automated the Change Management process in ServiceNow by using python scripts that interacted with the ServiceNow API.
* Orchestrated the Upgrade of an application suite from Python 3.7 to 3.11, ensuring continuity of services and ensuring proper dependency management.
* Designed and developed deployment solutions for application teams using Terraform, Kubernetes, Helm, ALB, ECS, EKS and EC2.
* Improved the visibility of decoupled deployment pipelines by building a custom, interactive CloudWatch Dashboard, and providing SSM Automation Documents to orchestrate deployment processes.
* Improved the security posture of application teams by providing built in capabilities for encrypting DynamoDB tables, S3 buckets and SSM Parameters using KMS.

**Sogeti Saint Louis Park, MN**

**Software Consultant June 2021-Present**

* Maintained a 99% utilization rate and received consistent 5.0/5.0 Satisfaction rating from Thomson Reuters, delivering exceptional value to the client.
* Pursued professional growth by achieving 1-3 partner certifications each year and completing 120+ hours of additional trainings, surpassing requirements for current engagement.
* Promoted knowledge sharing and fostered strong connections by actively participating in regular meetings with colleagues from various practices.
* Collaborated with a Business Development Executive to conduct technical interviews for new roles.

**Blueprint solutions Eden Prairie, MN**

**Software Support and Implementation specialist January 2020-July 2021**

* Communicated with customers both global and local to provide efficient and thorough technical support, maintaining a satisfaction rate of 97%.
* Utilized PostgreSQL and Redis to maintain complex databases and provide configuration changes for customers in a cloud-based environment.
* Applied and adapted existing processes to convert data between software systems, ensuring complete and correct transfer.
* Wrote Shell scripts in a Linux environment to automate the configuration of cloud resources.
* Developed complex SQL queries to generate custom reports from data stored in a PostgreSQL database.
* Collaborated with a team of developers, sales staff and Level 1 support to report, track and troubleshoot bug reports and feature requests.

**Target Minneapolis, MN**

**Senior Software Design Project January 2020-May 2020**

* Designed and developed front-end components using the React Framework and Semantic UI library.
* Implemented backend API endpoints in a microservice architecture using Express, Golang, and PostgreSQL
* Utilized 3rd party API’s and software packages to add code-scanning and OCR functionality to the Web-app.
* Collaborated with peers using workflow tools such as Docker and GitHub Actions to support the continuous development and integration of robust and scalable code.
* Presented the final product and demonstrated our progress to a panel of executives.

**EDUCATION**

**University of Minnesota Minneapolis, MN**

***Bachelor of Science, Computer Science***

**Skills and Certifications**

* **Programming Languages:** Python, Java, JavaScript, TypeScript, Golang, SQL, C/C++, Shell
* **Technologies:** Linux, Amazon Web Services, PostgreSQL, Git/Github, Docker, React, Angular, Redux, Node.js, Spring/Springboot
* **AWS Services:** EC2, S3, IAM, Cloudwatch, DynamoDB, Lambda, API Gateway, Cognito, SQS, SNS, Elastic Beanstalk, Codepipeline, Codebuild,Cloudformation, Serverless Application Model
* **Certifications:** Oracle Certified Associate - Java SE 8, AWS Cloud Practitioner, AWS Associate Developer, Azure Fundamentals, AWS Associate Solutions Architect