Kurt Kaufman

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Education

University Of Wisconsin Oshkosh B.Sc. Computer Science Fall 2013 - Spring 2017

Work Experience

Software Engineer in DevOps Jan. 2018 - Present
Vertafore - Denver, CO

- Manage and administrate 350+ cloud instances, both Linux and Windows across both Microsoft Azure and AWS for QQ Catalyst, a 4000+ customer product in a fully Agile environment
- Administrate and refine CI/CD infrastructure and pipelines through VSTS, Jenkins, Artifactory, and Gitlab
- Manage and develop infrastructure-as-code through Chef and AWS CloudFormation/OpsWorks
- Develop automated monitoring through the use of Python, .NET, AWS CloudWatch, and VictorOps
- Administrate and automate monitoring and configuration on ad-hoc systems such as ElasticSearch, RabbitMQ, MongoDB, Cassandra, GrayLog, and more
- Deploy web applications to all environments manually and through the use of existing CI/CD pipelines
- Determine best practices for autoscaling of web applications and SQL Server high availability

Database Analyst Jun. 2017 - Dec. 2017
Vertafore - Denver, CO

- Managed 150+ SQL Servers, running SQL Server 2000 through 2016, across 20+ applications
- Troubleshooted performance issues within each server, aggregating tools such as SQL Sentry and Dynatrace
- Built, configured, patched, and deployed SQL Servers in production and in lower environments
- Wrote powershell and T-SQL scripts to generate and automate reports on team productivity
- Investigated root cause within the database on severity one issues
- Created and updated documentation for server inventory and processes
- Began rewriting an internal tool, Script Processor, to automate SQL script runs within production
- Load tested SQL Server against different disk arrays (NetApp Flash/Hitachi) to determine performance bottlenecks

Full Stack Developer / Database Administrator Aug. 2014 - May 2017
MIO, Dept. Of IT - University Of Wisconsin Oshkosh

- Maintained the Microsoft SQL Server databases related to the MyUWO Portal, including optimizing and troubleshooting queries, tables, and other database objects
- Developed reports using SQL Server Report Builder and SQL Server Management Studio for the Department Of Residence Life, to aggregate and display data pertaining to all of the residents living on campus

- Led team of 19 programmers, ensuring projects got completed efficiently and effectively, and assisting wherever possible
- Maintained and troubleshooted SQL Server Integration Services packages, ensuring that ETL workflows work and perform effectively
- Developed web applications for the MyUWO Portal through the entire web development stack, using a Microsoft SQL and C# ASP.NET backend, and a JQuery/Angular.js front end

Senior Thesis Project Completed May 2017
Approximating Minimum Vertex Guarding of Monotone Polygons Using Linear Programming
University of Wisconsin Oshkosh

- Developed a piece of software which implemented an algorithm in Java that randomly generated monotone polygons with a specified number of vertices
- Implemented an algorithm to generate the linear program constraints to determine a minimum guard set for the polygon
- Examined the values that were assigned to each vertex in the guard set to determine whether or not there was a specific shape of polygon that forced values assigned to vertices to be a small value, saving the polygon if there was
- Ran experiments on different amounts of vertices to attempt to account for all cases

Program Staff Aug. 2013 - May 2014
Boys And Girls Club of Oshkosh, WI

- Coordinated programs for the computer lab, including STRIDE Academy, a learning software that complements education from school
- Worked and communicated with children of all ages
- Assisted in other areas of the facility as needed

Awards & Accolades

Vertafore Way Champion, Win Together - Q1 2019
Honors Program, Spring 2013 - Spring 2017
Dean's List - Fall 2013
Outstanding Service, Delta Chi Fraternity Oshkosh Colony - Spring 2015