Bruce Szudera Wienand

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Education

The University of Michigan, Ann Arbor — April 2017
Bachelors of Science in Computer Science — Gpa: 3.92/4.0
Bachelors of Science in Pure Mathematics — *High Honors*
Minor in Linguistics
Coursework: Data Structures and Algorithms, Web Databases and Information Systems, Machine Learning, Artificial Intelligence, Computer Security, Linear Algebra, Advanced Calculus, Combinatorics and Graph Theory, Mathematics of Finance, Computational Linguistics

Work Experience

Software Engineer — August 2018-Present
LiveRamp
- Led cost optimization initiative to decrease my team's cloud spend by over $1,000,000 per year
- Optimized spend by tuning expensive apps, increasing utilization of costly infrastructure and educating teammates
- Assisted in rearchitecture of Hadoop MapReduce-based pipeline to Apache Spark to modernize tech stack
- Increased reliability of pipeline by improving monitoring and alerting for critical components using Datadog
- Maintained health of twenty apps across five Hadoop clusters running up to 1,000 nodes and 10,000 jobs per day
- Migrated on-prem VM-based big data workloads and high availability servers to the cloud using Docker and Kubernetes
- Educated my teammates by leading periodic tech deep dives and organizing overviews of adjacent teams' responsibilities
- Introduced and advocated for various Scrum and engineering best practices to improve health and efficiency of team
- Developed a cloud-native web app using React and Node to allow customers to manage segments and compute stats
- Decreased page load time by 90% by reusing slow-loading components to provide the best customer experience possible

Developer and Founder — November 2016-Present
tenbounce.com
- Developed a custom web app which allows trampoline coaches to easily track athlete progress
- Implemented an API using Python Flask framework to control, access and display data stored in a PostgreSQL database
- Combined back end with JavaScript front end to create a dynamic, responsive and easy-to-use user interface
- Leveraged Google Charts API to display data to users in a convenient and easily interpreted manner
- Programmed custom regression and clustering algorithms to infer important information about user data
- Recruited beta testers from Facebook group to gather interesting use cases and suggestions for improvement
- Enumerated and administered multiple UI/UX tasks to uncover usability and experience flaws and improve thereon
- Marketed software to coaching peers and increase usage to over three hundred athletes and thirteen thousand data points
- Modified and enhanced functionality as appropriate to improve usability and user experience

Discrete Mathematics Instructional Aide — September-December 2016
The University of Michigan
- Administered office hours to provide one-on-one student advice as well as homework help and feedback
- Led weekly discussion section with up to forty students to facilitate collaboration and aid group problem solving
- Brainstormed exam questions in collaboration with professors to test student knowledge effectively
- Collaborated with coworkers to design weekly homework sets to measure and enhance student understanding

Leadership Experience and Communication Skills

Competitive Trampoline Coach — January 2012-August 2019
Grand Rapids Trampoline Center
- Designed individual athlete programming based on age and skill level to maximize competitiveness
- Led team to multiple top-three team titles at the National Championships as an athlete and coach
- Presented coaching strategy and philosophy in front of coaching peers at the annual National Congress
- Served as subject matter expert for progressions for double and triple somersaults with multiple twists
- Compiled trampoline times of flight to predict relationship between actual and adjusted using ML techniques

Experience

Google Cloud Platform, Docker, Kubernetes, MySQL, PostegreSQL, Terraform, Datadog, Hadoop, MapReduce, Spark, Java, Scala, Python, Flask, JavaScript, Node, React, HTML, CSS, Bootstrap, Git, Latex, Linux, Spanish