Jonah Jacobsen

Senior Software Engineer

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Summary

Dynamic Senior Software Engineer with over six years of experience in elite teams, specializing in AI-driven solutions and DevOps automation. Proficient in full-stack development, from machine learning models to cloud infrastructure, delivering millions of dollars in cost savings through innovative testing pipelines and efficient deployments. B.S. in Computer Science; skilled in remote collaboration within Agile environments, ready to drive immediate impact in cutting-edge tech projects.

Key Skills

- **Artificial Intelligence (AI):** Machine Learning (Scikit-learn), Deep Learning (TensorFlow), AI-assisted Software Development (Cursor, GitHub Copilot)
- **DevOps:** CI/CD, Docker, Kubernetes, Terraform, Automated Testing, Agile Methodologies
- **Languages:** Python, C++, Bash, SQL, Go, Dart
- **Frameworks:** Django, FastAPI, Flutter
- **Big Data:** Data Engineering (ETL), Data Analysis (Pandas), Data Science
- **Cloud Computing:** Google Cloud Platform (GCP), Amazon Web Services (AWS), DigitalOcean
- **Databases:** MongoDB, PostgreSQL, Redis, MySQL, SQLite
- **Source Control:** Atlassian Suite (e.g., Bitbucket, Jira), GitHub
- **Other:** Linux, Full-Stack Development

Professional Experience

Arcserve, *January 2021 - Present*, **Senior Software Engineer**

- Architected and built a full CI/CD pipeline from the ground up, including an automated regression testing pipeline, reducing minor feature release cycles from 9-11 months to daily deployments and enhancing overall CI/CD processes.
- Discovered and resolved bugs resulting in millions of dollars in annual savings.
- Designed and implemented new services and features for the cloud application, deployed globally and utilized daily in production.
- Managed petabytes of data in cloud storage and backup solutions, ensuring efficient data engineering and big data handling.
- Pioneered the adoption of GitHub Copilot by suggesting and piloting company-wide licenses, serving as the initial user to demonstrate enhanced engineering productivity and code quality across the organization.
- Authored documentation for development environment setup and trained new developers on tools and best practices.

StorageCraft Technology Corp., *August 2019 - January 2021*, **Software Engineer**

- Mastered new languages and tools including Terraform, Kubernetes, Atlassian Suite, and Docker while on the job.
- Cultivated essential soft skills for the industry, such as leadership, strategic thinking, team building, collaboration on large projects, and conflict resolution within Agile methodologies.

Certifications

Deep Learning Specialization, *September 2024 - January 2025*, **Coursera (offered by DeepLearning.AI)**

- Completed 5 courses covering neural networks, including Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, and Transformers.
- Mastered optimization techniques such as Dropout, BatchNorm, and Xavier/He initialization.
- Applied deep learning to real-world problems in speech recognition, music synthesis, chatbots, machine translation, and natural language processing using Python and TensorFlow.

Education

B.S. in Computer Science, *August 2015 - May 2019*, **University of Colorado at Boulder**

Relevant Coursework: Algorithms, Data Structures, Intro to Artificial Intelligence, Data Science, Linux System Administration, Operating Systems