

Russ Brennan

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I foster openness and creative freedom, removing barriers to collaboration and innovation in order to over-deliver on complex problems. As TL of Google's Cloud Support Machine Learning Platforms team, I'm charting the course of scalable ML Infrastructure in the Cloud Support organization.

EDUCATION

University of Illinois

MS, BS Electrical Engineering

Focus on Wireless Communications and Digital Signal Processing

BS, Electrical Engineering

Red Hat Inc.

Red Hat Certified Engineer and System Administrator (RHCE, RHCSA)

EMPLOYMENT

Google Cloud

TSE-SWE - Tech Lead

2014-

Received the 2018 Google Cloud "Feats of Engineering" award for work around ML platforms.

As a member of the Cloud Support Engineering Council, responsible for advising and guiding platforms (shared capabilities) and solutions (use cases) development across Cloud Support.

As TL of Machine Learning Platforms, drove reliability and supportability of production systems by standardizing on ML architectures and technologies throughout the organization and creating a unified ML Platform to democratize the use of ML.

Reduced support contact rate by 58% to date by targeting self-help in customer support; utilized Tensorflow, the TFX ML platform, and best practices for monitoring and validation.

Freed up numerous continuous FTE headcount as TL of internal workflow tooling and automation.

Northrop Grumman IS

SWE - Software Defined Radio (SDR)

2005-2014

As TL, promoted adoption of R&D efforts leading to multiple long-term contracts by designing and creating a full map stack isolated-cloud Web App for SIGINT tech visualization.

As an IC, delivered mission-critical capability by creating complex, high-performance Software Defined Radio (SDR) solutions, with focus on the Physical through Session layers.

Administered a 50+ Linux node infrastructure for fun and enjoyment.

Custom Speech USA (Internship)

Software Tester

2005

Created unit tests, benchmarked, and tracked metrics for Natural Language Processing workflow software.

RECENT FUN PROJECTS

- ML-driven dynamic automobile suspension for ~~cheating~~ optimal traction in Autocross racing.
- Wear levelling EEPROM library to avoid exceeding the <very large number> EEPROM write limit.

EXPERTISE

- Expert in Python, fluent in C++, DML, past experience in Golang, JS/HTML/CSS
- Domain knowledge: Machine Learning (Tensorflow), System Design and Architecture, Wireless Communications, Signal Processing, Linux Administration, Network Data Layers, Map Stacks