

Russ Brennan

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Seattle, WA

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An experienced software engineer with a large breadth of knowledge across many domains, most recently acting as TL for internal tooling with the end goal of reducing organizational costs by leveraging machine learning and optimal resource usage. Extensive experience designing and implementing custom, high performance Software-Defined Radio (SDR) Systems in Python and C++ with a focus on modularity, rapid development, and innovative design approaches.

EDUCATION

University of Illinois

MS, Electrical Engineering

Focus on Wireless Communications and Signal Processing

BS, Electrical Engineering

Red Hat Inc.

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

EMPLOYMENT

Google, Inc.

TSE-SWE

2014-

TL for development of internal tools targeted at lowering the cost of supporting Cloud offerings. Lead developer in implementation of a Machine Learning software stack targeting self-help in customer support.

Northrop Grumman IS

Software Defined Radio (SDR) Engineer 2005-2014

TL of a team responsible for implementation of signal and image processing applications. Created complex, high-performance solutions in software for processing standards-compliant and variant wireless communications, focusing on the Physical through Session layers. Designed and created a cloud-based Web App in order to visualize the results of R&D efforts. Used spare cycles to administer a 50+ Linux node infrastructure.

Custom Speech USA

Software Test Lead, Customer Support 2005

Benchmarked, unit tested, and created metrics for Speech Recognition and transcription database workflow software.

University of Illinois, Urbana-Champaign

Senior Network Technician

2001-2004

Senior support technician for 10,000+ user campus WAN. Performed Security Analysis and maintenance of large-scale network resources. Rapidly diagnosed and repaired hardware and software failures.

EXPERTISE

- Python, C++
- HTML5/CSS3
- JavaScript & JQuery
- Scripting and Config languages
- Django
- Wireless Comms
- Signal Processing
- Network Data Layers
- Databases/DML
- Map Stacks - Mapnik, OpenStreetMaps, Leaflet
- Linux Administration
- FORTRAN (don't tell anyone)