JEFFERY RUSSELL

SOFTWARE ENGINEER

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Experienced Software Engineer with a demonstrated history of working in the research industry.

Skills

LANGUAGES

Java
Python
Javascript
C#
C++
Scala
R
Bash
SQL

FRAMEWORKS

Pytorch
Numpy
Docker
Kubernetes
HBase
Spark
Janusgraph
Kafka

SOFTWARE

RHEL
GIT
SSH
Wireshark
VMware
Debian
Arch
Jenkins
Bamboo
Jira

Education

Rochester Institute Of Technology   Sept. 2017 to Dec. 2020
Bachelor's Computer Science 2020
GPA: 3.92

Employment

CUBRC   Rome NY
Software Engineer   Dec. 2020 to Current
- Developed database, algorithms, and REST endpoints to aid in satellite RF communication.
- Containerized big data ecosystem and deployed application on Kubernetes cluster using Helm.
- Patched security vulnerabilities in Scala, Angular, and Java applications.

                                                        Rome NY
Software Engineer Intern   May 2020 to Dec. 2020
- Designed a big data pipeline leveraging graph convolutional neural networks.
- Presented research at the 2020 Astrodynamics Specialist Conference.

RIT Industrial and Systems Engineering   Rochester NY
Research Assistant   May 2018 to May 2020
- Implemented machine learning algorithms to support space situational awareness.
- Created a NoSQL web application to visualize historical satellite activities.
- Presented research at RIT's research symposium in 2018 and 2019.

Rochester Institute of Technology   Rochester NY
IT Support Specialist   Mar. 2018 to Nov. 2018
- Maintain the network, software, and computers at RIT's library.

                                                        Rochester NY
Teaching Assistant   Aug. 2019 to May 2020
- Provided in-class support for software engineering courses.
- Hosted review sessions and workshops to help students understand concepts such as web design and unit testing.
- Graded the work of up to 40 students in a timely manner.

Pioneer Malting   Rochester NY
Software Engineer, Assistant Malster   Jan. 2017 to Jan. 2018
- Constructed a web application that keeps track of inventory, batches, clients, invoices, orders, and payroll.
- Developed Arduino firmware to run an industrial oven that malts barley.

Projects

Github Graphs
Started an open-source project that visualizes data from the GitHub API.

NodeJS Blog
Created a blogging platform from scratch using Node, SQL, and Pandoc. On the live blog, I write about data science and open-source software.

Musical Floppy Drive
Wired 8 floppy drives to an Arduino board to play MIDI. Presented at Imagine RIT and the Rochester Maker Faire in 2018 and 2019.

Other (Full list on jrtech.me)
- Steam graphs: application to download and visualize Steam social network data.
- Hoffends: created a public-facing website for a local retail store.
- Home Brew Plex: node web application with a user management system to show videos.

Activities

RIT Linux Users Group · President
- Ran weekly meetings.
- Sent out a weekly newsletter.
- Invited guest technical speakers to present.

RIT Artificial Intelligence Club
- Presented AI related topics such as adversarial attacks on neural networks and genetic algorithms.