Hareesh **Nagaraj**

SOFTWARE ENGINEER · DISTRIBUTED SYSTEMS

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"Talk is cheap. Show me the code."

Summary

Current Software Engineer II at Microsoft on Azure Service Fabric. 4+ years development experience, 2+ years specializing in distributed systems development, and extensive previous work developing web and mobile applications.

Work Experience

Microsoft Corporation   *Redmond, Washington*

SOFTWARE ENGINEER II - AZURE SERVICE FABRIC   *Jan. 2015 - PRESENT*

- Primarily focused on the Transactional Replicator used in Service Fabric Reliable Collections
- Aided in rebuilding the transactional replicator in C++ for native linux compatibility. Primarily working on interaction between transactional replicator and physical log component - including batched writes, truncation, and false progress detection.
- Built and maintained applications and performance infrastructure to benchmark replicator performance. Including end-to-end automated testing, unit and integration testing (primarily BOOST with C++)
- Created and maintained election simulation service fabric application designed to stress-test long-running clusters during up/downgrade. Composed of 5 microservices to drive simulation, with configuration options enabling Azure Storage backup and Azure Table Storage logging

Coversplash/Photorankr   *Seoul, S.Korea*

CO-FOUNDER, LEAD DEVELOPER   *June. 2013 - Sep. 2014*

- Joined the Photorankr team as part of Princeton eLab's 2013 incubator class scaling the network from 1,000 to over 9,000 users
- Key technical role as fullstack engineer, designing and deploying features of the site such as image lightbox, album creation, upload process and others.

Projects

stockmusic   *Pennapps X*

GITHUB.COM/HAREESHNAGARAJ/STOCKMUSIC   *Sep. 2014*

- PennApps X Winner for Best use of Bloomberg API. Generated a musical representation of stock data using data from Bloomberg.

boysenberry   *Virginia*

GITHUB.COM/HAREESHNAGARAJ/BOYSENBERRY   *June 2014*

- A lightweight developer tools for chrome that makes analyzing style attributes much simpler than the normal inspector.

tabdat   *Virginia*

GITHUB.COM/HAREESHNAGARAJ/TABDAT   *July 2014*

- An Android application to allow guitar players to easily find tabs. Implemented Gracenote SDK for shazam-style song recognition.

Education

The College of William & Mary   *Williamsburg, Virginia*

B.S. IN COMPUTER SCIENCE   *Sep. 2011 - May. 2015*

- Minor in Economics
- Advanced coursework including Operating Systems, Network Security, Automata Theory

Princeton University   *Princeton, NJ*

ELAB SUMMER ACCELERATOR PROGRAM   *June. - Aug. 2013*

Thomas Jefferson High School for Science and Technology   *Alexandria, VA*

ADVANCED HS DIPLOMA   *Sep. 2007 - June. 2011*