

Magesh Kumar Murali

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WORK EXPERIENCE

GRADUATE RESEARCH ASSISTANT

Sep 2016 - Present

Oregon State University, Corvallis

- Created a library in python which allows programmer to write programs that will automatically learn from experience over repeated runs
- Assist in researching choice calculus, a new programming language paradigm developed at OSU
- Part of the DARPA XAI team whose focus is to create new techniques to help humans understand output generated by AI systems
- Reviewer for ACM SIGPLAN Haskell Symposium 2017
- Attend weekly reading group and seminar of Programming Language Theory Group (λ)

APPLICATION DEVELOPER

Nov 2015 - Jun 2016

ThoughtWorks, Singapore

- Developed a large scale private banking application for APAC Credit Suisse with support for multiple browsers, iOS and Android devices
- Architected the UI framework which helped improve code reusability across projects
- Found and fixed security flaws in the application
- Developed multiple plugins including plugins for video streaming and touchID
- Setup and optimized the build process across the project improving the productivity of developers
- Appreciation from client for delivering high quality product on time with a tight schedule
- Worked in a multicultural environment with people from more than six different countries

APPLICATION DEVELOPER

Aug 2013 - Oct 2015

ThoughtWorks, Chennai

- Migrated an existing monolithic application which was unable to handle the load by splitting it into scalable modules using SOA principles and RESTful api for communication between modules. The application was able to scale to over a million request per second after the refactor
- Developed the promotion module which uses complicated rule logics to decide which promotion can be applied to the shopping cart
- Designed and developed an application to help a major book publishing company manage and track the progress of each of its book from manuscript delivery to printing The turnover rate of the company increased significantly after using the application
- Practiced agile, test driven development (TDD), continuous delivery (CD) and continuous integration (CI)

EDUCATION

OREGON STATE UNIVERSITY:

Dec 2017 (Expected)

Master of Science (M.S), Computer Science

AMRITA UNIVERSITY:

May 2013

Bachelor of Technology (B.Tech), Computer Science

- Researched on semantic web and developed an open source question answering system
- Developed a rendering engine to display RDF models using fresnel vocabulary
- Implemented a W3C specification
- Developed an open source online code judge to help conduct coding contest in college
- Implemented a shadow detection algorithm in OpenCV

SKILLS

PROGRAMMING LANGUAGES: Scala, Haskell, Python, Javascript.

FRONTEND: AngularJS, HTML, CSS, Semantic UI, Bootstrap3

BACKEND: Play, Django, Flask, NodeJS, ExpressJS

DATABASES: MySQL, MongoDB, CouchDB, Redis

PRACTICES: Agile, TDD, Continuous Integration, Continuous Delivery, RESTful API

PLATFORMS: AWS, Heroku, Docker, Linux

OTHERS: Ansible, Snap CI, GO CD, Git, Apache Camel, L^AT_EX