Gary Joel McDonald

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Education

B.S, Computer Science — Dec 2018
James Madison University, Harrisonburg, VA

Certifications and Programming Languages

SAFe 4 Scrum Master (SSM) — Jul 2018 – Present

- Java (4 Years), primary language used within CS curriculum.
- C (3 Years), developed systems projects for higher-level CS curriculum.
- Python (2.5 Years), language used at Leidos for production automation.
- SQL (1.5 Years), implemented within coursework assignments and personal projects.
- React (1 Year), library used at ScienceLogic for user interface construction.

Applications and Operating Systems

- Linux (3 Years), CentOS7, RHEL, Ubuntu; environments used to configure production virtual machines.
- Docker (2.5 Years), used at Leidos and ScienceLogic to containerize infrastructure services.
- Atlassian (2 Years), used JIRA for issue tracking, BitBucket for version control, Confluence for docs.
- Kubernetes (1 Year), container orchestration tool used at ScienceLogic to develop cluster implementation.

Work Experience

Leidos, Junior DevOps Engineer — Dec 2018 – Present

- Designed scalable, redundant infrastructure within physical and virtualized environments.
- Maintained and orchestrated services and procedures used within concurrent build pipeline.
- Improved existing infrastructure by incorporating cross application integrations and latest best practices.
- DevOps Team Scrum Master; actively participated in Engineering design meetings to drive quality releases.

ScienceLogic, Software Engineer Intern — Jun 2018 – Aug 2018

- Assisted in development of Kubernetes feature package within SL1 software product.
- Developed frontend and backend experience utilizing JavaScript and Python frameworks.
- Refined organization virtualization techniques using Docker.
- Participated in Daily Standups and shadowed engineers on software development process.

Relevant Coursework

CS470, Distributed Systems Research Project — Jan 2018 – Jul 2018

- Research project utilizing Amazon Web Services for performance analysis of cluster combinations.
- Technologies used: Elastic Compute Cloud (EC2), make, C, & OpenMP.

CS345, Software Engineering Team Project — Aug 2017 – Dec 2017

- Team oriented project using the Scrum Software Development Process.
- Teams iteratively create a software product in Java through planned sprints.
- Students implement a set of features gathered from the Product Owner.

Personal Projects

Tiptabs, Currency Conversion Calculator — github.com/mcdonagj/Tiptabs

- Python web application built to simplify conversion between established currencies.
- Utilizes RESTful methods to retrieve JSON rate information from API.
- Application is built, tested, and executed within a Docker container.
- Project stack includes: Flask, AngularJS, HTML/CSS, & MySQL database.