Gary Joel McDonald

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Education
Bachelor of Science, 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 development language used within undergraduate curriculum.
- C (3 Years), developed systems projects for higher level curriculum courses.
- Python (2.5 Years), language used at Leidos for production automation.
- SQL (1.5 Years), utilized within coursework assignments and personal projects.
- TypeScript (1.5 Years), used at ScienceLogic for user interface component construction.

Applications and Operating Systems
- Linux (3 Years), CentOS, RHEL, Ubuntu; environments used within 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 Software Engineer   Dec 2018 – Present
- Used Terraform and Amazon Web Services to create scalable, redundant infrastructure.
- Maintained and orchestrated services and procedures used within concurrent build pipeline.
- Improved infrastructure by incorporating cross application integrations and latest best practices.
- Actively participated in Engineering Scrum and 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.

Personal Projects
Tiptabs, Currency Conversion Calculator   github.com/mcdonagj/Tiptabs
- Python web application built to simplify conversions between established currencies.
- Utilizes RESTful methods to retrieve JSON rates from open-source API.
- Built & tested within a Docker container on Travis CI; Deployed to Heroku: tiptabs.herokuapp.com
- Project stack includes: Flask, AngularJS, HTML/CSS, & MySQL database.

Attend, Candidate Scheduling Application   github.com/mcdonagj/Attend
- (WIP) React web application created for a modern user interface for candidate scheduling.
- UI component state control with Redux; server-rendering with Next.js; Jest / Enzyme for testing.