

Gary Joel McDonald

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Education

B.S, Computer Science

Expected Dec 2018

Minor: Computer Information Systems

James Madison University, Harrisonburg, VA

Certifications and Programming Languages

SAFE 4 Scrum Master (SSM)

Jul 2018 – Present

- Java (3.5 Years), primary language used within CS curriculum.
- C (3 Years), used in projects within higher-level CS curriculum.
- Python (2 Years), language used at ScienceLogic for backend development.
- SQL (1.5 Years), used within projects in higher-level CS and Business curriculum.
- React (1 Year), language used at ScienceLogic for UI construction.

Applications and Operating Systems

- Linux (3 Years), Mint, Ubuntu, Debian; primary environment used within CS curriculum.
- Docker (2 Years), used at ScienceLogic to containerize services in SL1 software product.
- Kubernetes (1 Year), primary tool used at ScienceLogic to develop cluster implementation.

Work Experience

ScienceLogic, Software Engineer Intern

Jun 2018 – Aug 2018

- Assisted in the construction of a worker node in Kubernetes alongside DevOps team.
- Developed experience with frontend and backend development in JavaScript and Python.
- Refined organization automation techniques using Docker and Kubernetes.
- 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: Amazon Web Services (AWS), 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 and Extracurricular Activities

Tiptabs, Currency Conversion Calculator

github.com/mcdonagj/Tiptabs

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

Member, UNIX Users Group

Jan 2017 – Present

Member, ACM Competitive Programming