Gary Joel McDonald

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Education

B.S., Computer Science, Expected Dec. 2018
Minor: Computer Information Systems
James Madison University, Harrisonburg, VA
Major GPA: 2.910

Certifications and Programming Languages

Microsoft Certified Application Specialist April 2016 – Present

- Java (3.5 Years), used extensively within CS curriculum.
- C (3 Years), used in projects within higher-level CS curriculum.
- SQL (1.5 Years), used for projects within higher-level CS and Business curriculum.
- Visual Basic (1 Year), introductory language for students in Business curriculum.
- Python (1 Year), independently taught for personal projects.

Applications and Operating Systems

- Microsoft Windows (9 Years), XP to current W10; used since introduction to computing.
- Linux (3 Years), Mint, Ubuntu, Debian, GNOME; alternated as primary driver in CS curriculum.
- VMWare (2 Years), used to experiment with alternatives to traditional environments.
- IntelliJ IDEA (2 Years), IDE used throughout coursework.
- Kubernetes (1 Year), primary utility used to automate cluster deployment.
- Android Studio (1 Year), used to create personal Android applications.

Work Experience

Dynamic Aviation, Information Technology Intern June 2017 – September 2017

- Assisted Information Technology department with various corporate improvements.
- Developed hands-on experience with implementations of network infrastructure and software management.

Relevant Coursework

Computer Science Systems Core, CS 470 Research Project January 2018 – Present

- Research focused project utilizing Amazon Web Services for performance analysis of various cluster combinations.
- Topics include: MPI, OpenMP, and Amazon Web Services (AWS).

Computer Science Systems Core, CS 361 Semester Project August 2017 – December 2017

- Individual focused project covering design of a web server using the C programming language.
- Implemented topics such as: multi-threading, synchronization, and network design.

Computer Science Curriculum, CS 345 Team Project August 2017 – December 2017

- Software Engineering course designed around learning the Systems Development Life Cycle.
- Teams created a software product following the SCRUM framework and utilizing Subversion version control system.

Achievements and Extracurricular Activities

Member, ACM Competitive Programming January 2017 – Present
Member, UNIX Users Group