DAWIT WOLDEGIORGIS

1000 N 4th St, Fairfield, IA 52557 • (305) 951-4775 • dawithwoldegiorgis@gmail.com • dawithw.github.io

SUMMARY

Talented recent graduate with solid foundation in the fundamentals of computer science, including data structures & algorithms, system design, databases, and security. Proficient in object-oriented programming; design, development, debugging and testing. Experienced in all phases of the SDLC (software development lifecycle), from requirement analysis to deployment. Self-driven and motivated, able to work effectively individually or in a team setting that supports continuous learning. Extensive experience working in small agile multicultural teams.

EDUCATION

Master of Science in Computer Science, June 2020

Maharishi International University, Fairfield, IA
- GPA: 3.85/4.0
- Coursework: Advanced Software Development, Modern Web Applications, Enterprise Architecture, Big Data, Database Systems

Bachelor of Science in Biology, *cum laude*, December 2015

University of Florida, Gainesville, FL
- Minor: Computer Science (in-minor GPA: 3.7/4.0)
- GPA (cumulative): 3.58/4.0
- Coursework: Data Structures & Algorithms, Operating Systems, Computer Security

EXPERIENCE

Software Developer Intern, October 2014 – April 2015

University of Florida, Gainesville, FL

Collaborated with a team of researchers at Edison Laboratory to develop computational MATLAB applications used for data analysis.
- Consult with lab members routinely to analyze changing needs, gather requirements, estimate project timelines and update status.
- Modify existing software to improve performance and integrate interactive user interface and data visualization tools.
- Develop scripts to automatically extract raw data, transform into human-readable format, and save into spreadsheet files.

SOFTWARE PROJECTS

Personal Website, dawithw.github.io (for more projects and source code)

Farm Invest
- Designed and implemented, in a team of three, a MEAN stack web application for a small farming business to sell shares online.
- Developed login and sign-up page UI (user interface), controllers, routes, and services in Angular.
- Utilized JWT (JSON web token) to implement OAuth for ensuring secure communication between the frontend and backend.
- Created RESTful backed services and middleware in Node.js to format user input and perform CRUD operations on accounts.
- Used Mongoose to design document schema, write custom queries, and connect with a cloud-based MongoDB for persistence.
- Technologies used: HTML5/CSS3, TypeScript, Bootstrap, Angular 7, Node.js, Express.js, Mongoose, MongoDB, Postman

Online Store
- Built a Spring Boot application for an e-commerce website, collaborating in a small team, using iterative development.
- Implemented views, controllers, models, services and repositories for managing user accounts and edit product inventory.
- Designed database schema in MySQL; utilized Spring Data and Hibernate ORM (object relational mapping) for data access.
- Configured security to encode passwords and enable authentication, authorization, access-control.
- Technologies used: Java, Spring (Boot, Data, JPA, Security), JSP, JPQL, MySQL, JavaScript, Bootstrap, Apache Tomcat

FinCo
- Architected, designed and coded a Java based financial framework, in a team of two, utilizing object-oriented design patterns.
- Developed interactive demo applications, for a banking and credit card system, that utilized and extended our framework.
- Extensively documented architecture, flow of operations, and entity relationships using UML diagrams.
- Technologies used: Java (Core, Swing), StarUML

Library Management System
- Worked in a team of three to design and implement a desktop application for a library system using Java.
- Created class and sequence UML diagrams to document entity relationships, architecture, and flow of operations.
- Designed and developed UI using MVC architecture, in JavaFX; implemented controllers and services using core Java.
- Technologies used: Java, JavaFX, StarUML

SKILLS

Programming Languages: Java (SE, EE), C++, C, HTML, CSS, XML, JavaScript, TypeScript
Frameworks: Spring (Boot, Core, MVC, Security, Data), Hibernate, Angular, Node.js, jQuery, JUnit, Mockito
Concepts: Object-oriented programming (OOP), Design patterns, RESTful API, Test/Behavior Driven Development (TDD/BDD)
Databases: MySQL, H2, MS SQL Server 2010, MongoDB
Tools: Maven, Apache Tomcat, Postman, GitHub, VS Code, IntelliJ, Eclipse, Adobe XD, VirtualBox
Operating Systems: Windows, Mac OS, Linux (Ubuntu, Kali), OpenBSD