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 – algorithm & data structures, system design, and computer security. Highly skilled in object-oriented programming; design, implementation, debugging and testing. Experienced in all phases of the SDLC (software development lifecycle) – requirement gathering, design, architecture, development, testing and deployment. Self-driven and motivated, able to work individually or in a team setting. 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 Management

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
Worked in Edison Laboratory, which used to be located in the University of Florida College of Medicine department,

- Support a team of non-technical lab members develop computational MATLAB applications.
- Consult with lab members routinely to analyze changing needs, gather system requirements and estimate project timeline for which quality solution was delivered in a timely manner.
- Modify existing software to integrate user interface, add data visualization support, and increase computation performance.

SOFTWARE PROJECTS

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

Farm Invest,

- Collaborated with a team to develop a MEAN stack web application that allows a small farming business to sell shares.
- Developed login and sign-up page interface, controllers, routes and data exchanging services using Angular.
- Implemented OAuth for authentication & authorization, using JWT, with encoder & decoder on both the frontend and backend.
- Created RESTful backed services and middleware in Node.js to format data and perform CRUD operations on user accounts.
- Used Mongoose to design document schema, write custom queries, and connect with a cloud-based MongoDB for persistence
- Technologies Used:

Online Store,

- Built a Spring Boot application for an e-commerce website, in a small team using iterative development.
- Implemented views, controllers, models, services and repositories for account and inventory management use cases.
- Designed database schema in MySQL; utilized Spring Data and Hibernate ORM (object relational mapping) for data access.
- Configured application security, for authentication, access-control and encoding passwords.
- Technologies Used**:**

FinCo,

- Designed and implemented a financial framework in Java, 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:

Dinner Plans,

- Implemented a C++ application that reads, names, stores, and operates on recipes.
- Built custom parser that reads, saves, and extracts data from XML formatted files containing recipe and equipment details.
- Implemented automated unit conversion, to combine quantity data from multiple recipes to produce a unified shopping list.
- Technologies Used:

SKILLS

Programming Languages: Java, C++, C, HTML, CSS, JavaScript, TypeScript
Frameworks: Spring (Boot, MVC, Core, Security, Data), Angular, Node.js, jQuery
Concepts: Object-oriented programming (OOP), Functional Programming, Design patterns, SDLC
Software Development Processes: Agile, Iterative, Waterfall