

JOHN W HODSON

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EDUCATION

University of Florida, Gainesville, FL **GPA: UPDATE_ME/4.0** **August 2016 to May 2020**

- Bachelor of Science in Computer Engineering
- Coursework - Algorithm Design, Programming Language Concepts, Object Oriented Programming, Data Structures & Algorithms, Microprocessor Applications, Digital Design, Engineering Project Management
- Honors - UF CISE Memolo Memorial Scholarship, UF ECE Ralph Sias Scholarship, Bright Futures Florida Academic Scholar (100% tuition coverage), College of Engineering Dean's List (Spring 2018), UF Anderson Scholar (top 1% academically in class of 2020)

EXPERIENCE

Microsoft, Redmond, WA

May 2019 to August 2019

Software Engineer Intern

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- In ex nibh, dictum sed lobortis eget, sodales quis lorem. Ut sit amet ornare lectus.

Ultimate Software, Weston, FL

May 2018 to August 2018

Software Engineer - TechStar Intern

- Developed and tested in C# within the ASP.NET framework in a Kanban-Agile environment on UTE (UltiPro Tax Engine), responsible for the collection and payment of over 30 billion dollars in taxes.
- Managed and manipulated UTE's T-SQL database with the use of Microsoft SQL Server.
- Implemented Grafana dashboard to diagnose performance issues with generation and calculation of tax forms in order to better meet SLAs.
- Closely collaborated with Business Analysts and used DDD practices in order to best serve end users.

Google igniteCS, Gainesville, FL

January 2017 to May 2018

Program Lead (formerly Logistics Director)

- Communicated directly with Google and make key decisions on critical aspects of the program.
- Managed scheduling between Oak View Middle School and our Google igniteCS team of over 30 mentors.
- Aided students in a class of ~20 working with VEX iQ Robotics, providing guidance in basic programming principles and hardware implementation as a mentor.

Association of Computer Engineers (ACE), Gainesville, FL

January 2018 to January 2019

External Outreach Chair

- Planned and implemented biweekly outreach events for a club with a reach of nearly 1000 members.
- One of 11 leaders responsible for the management/growth of ACE via decision making on key issues.
- Participant in career development mentorship pairing program as an active member.

PROJECTS

C-Like Language to LLVM Compiler Gainesville, FL

April 2019 to May 2019

- Built a compiler in OCaml for GNU bc, the popular Unix calculator language, using the LR(1) parser generator Menhir and OCaml's LLVM library to generate LLVM IR code.
- Includes functions, if/else statements, and while/for loops - all structured in an abstract syntax tree.

TECHNICAL SKILLS AND INTERESTS

Back-End

Java, C#, Python, SQL, C++

Miscellaneous

OCaml, ANTLR, MATLAB/Octave, C, VHDL, AVR Assembly

Frameworks & Tools

Git, ASP.NET

Certifications

Machine Learning (Andrew Ng on Coursera), MongoDB Basics

Interests

Spearfishing, Physical Fitness, Compilers, Machine Learning/Data Science