

JOHN W HODSON

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EXPERIENCE

Microsoft, Redmond, WA

May 2019 to August 2019

Software Engineer Intern

- Developed using C# and .NET on [Azure Active Directory](#), a cloud-based service responsible for managing user identities, access management, and devices.
- Solved a major customer complaint regarding the loss of private BitLocker key data by refactoring API calls and architecting an additional external storage model to decouple the lifetime of two data objects.
- Changed the intrinsic way that the Microsoft Mezzo cache service operated by altering their data syncing service to sync data objects with a one-to-many instead of a one-to-one relationship.

Ultimate Software, Weston, FL

May 2018 to August 2018

Software Engineer Intern

- Developed and tested using C# and ASP.NET on [UTE \(UltiPro Tax Engine\)](#), an internal tax filing service responsible for the collection of over 13,000 tax codes.
- Implemented Grafana dashboard to diagnose performance issues with generation and calculation of tax forms in order to better serve users.

EDUCATION

University of Florida, Gainesville, FL

GPA: 3.96/4.0

August 2016 to May 2020

Bachelor of Science in Computer Engineering

- Coursework - Algorithm Design, Object Oriented Programming, Computer System Design, Operating Systems, Microprocessor Applications II (RTOS), Programming Language Concepts, Database Systems
- Honors - [Computer E Award \(most prestigious academic award granted by ECE department\)](#), [Anderson Scholar \(top 1% academically, class of 2020\)](#), [College of Engineering Scholarship for Engineering Leadership](#), CISE Scholarship, ECE Scholarship (x2), College of Engineering Dean's List (x4)

VOLUNTEER EXPERIENCE

Google igniteCS, Gainesville, FL

January 2017 to May 2018

Program Lead (formerly Logistics Director)

- Communicated directly with Google and made 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.

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

Architecture & Systems	Web Development, RESTful APIs, Microservices, Embedded Systems
Languages	C#, Python, Java, C, Assembly (AVR, ARM), OCaml, C++
Frameworks & Tools	.NET, Django, Hugo, PyTorch, Bash, Git
Data Management	Microsoft SQL Server, MongoDB

