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)

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
Containers & Cloud	Docker, Azure