

# MICHAEL ORSCHELN

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## EDUCATION

*Bachelor of Science (BS) Computer Engineering*

Dec 2024

The University of Alabama, Tuscaloosa, AL

GPA: 3.00/4.00

Minors: Mathematics, Computer Science, Spanish

Relevant Coursework: Digital System Design, Signals and Systems (Signal Processing), Computer Architecture, Data Structures and Algorithms, Microcomputers, Digital Logic, Embedded Systems, Theory of Probability, Linear Algebra

## EXPERIENCE

*Software Developer*, RLS Solutions, Remote

Jul 2024 - Present

- Automate migration process of 650+ products and content management system (CMS) data via Python, GraphQL, and Shopify REST API to eliminate 120+ hours of manual data entry
- Develop web, iOS and Android applications in React JS/Native, collaborating with other developers, focusing on backend integration and user interface component modularity to enhance app functionality

*Digital Forensic Intern*, Reparior, Remote

May 2023 - Aug 2023

- Analyzed digital evidence, from various devices including 9 different forensic tools, and assembled 2 forensic examination reports for use as admissible evidence in litigation

*Project Management Intern*, SALTO Systems, Oiartzun, Gipuzkoa, Spain

Jun 2022 - Aug 2022

- Designed onboarding courses delivered to 64 global business units reducing onboard load by 45% thus driving sales performance and growth into new markets
- Aligned cross-functional teams to integrate 3 different product lines, working closely with technical managers from SALTO and Apple Inc. for successful launch of new platforms

*Associate Intern*, Charter Capital Management, Inc., Boston, MA

May 2021 - Jun 2021

- Developed responsive website with analytical tools resulting in a 152% increase in organic search traffic
- Evaluated real estate investment projects applying comparative and cash flow analysis supporting 10 acquisitions with total valuation of \$233 million
- Reduced market research workload for residential property acquisitions by 75%

## PROJECTS

*Localization Subsystem Lead*, IEEE SoutheastCon Hardware Competition

Aug 2023 - Mar 2024

- Engineered autonomous robot, alongside 4 team members, with ability to complete a series of tasks to send supplies to space
- Integrated localization subsystem in ROS using Arduino microcontroller and processed sensor data using Kalman filter, a mathematical algorithm, for data accuracy within 1 Euler angle for 6 degrees of freedom

*Custom Hardware Snake Game*, Digital Systems Design

Aug 2023 - Dec 2023

- Implemented custom hardware logic to make a snake game using Verilog on a Basys3 FPGA board with a VGA interface, simulating real-time gameplay mechanics

## SKILLS

Software: C++, C, MIPS Assembly, Java, Python, JavaScript, TypeScript, HTML, CSS, Git, MATLAB, Simulink  
Microsoft Office (Word, Excel, PowerPoint), Adobe Photoshop

Hardware: Verilog, VHDL, HDL, SPI, I2C, UART, RTOS, Xilinx Vivado, Cadence PSpice, FPGA, ASIC, SoC, ARM

Frameworks: React, React Native, Chakra-UI, NextJS, TailwindCSS

OS: MacOS, iOS, Windows, Linux, Unix, Kali Linux, RTOS, Robotic Operating System (ROS)

Tools: Oscilloscope, Multimeter, Spectrum Analyzer, Soldering Iron

Languages: English (Native), Spanish (Professional)

## ADDITIONAL INFORMATION

Honors: President's List, UA Scholar

Leadership: UA Men's Club Soccer Team Captain