

# MICHAEL ORSCHELN

<https://www.linkedin.com/in/michaelorscheln/> | [www.michaelorscheln.com](http://www.michaelorscheln.com) | <https://github.com/moorscheln>

## EDUCATION

The University of Alabama - Tuscaloosa, AL  
*Bachelor of Science (BS) Computer Engineering*  
Minors: Mathematics, Computer Science, Spanish

Dec 2024  
GPA: 3.00/4.00

## EXPERIENCE

*Software Developer*, RLS Solutions, Remote

Jul 2024 - Present

- Streamline migration processes of 650+ products and content management system (CMS) data via Python, GraphQL, and Shopify REST API to automate 120+ hours of manual data entry
- Develop web, iOS and Android applications in React JS/Native, working closely with other developers, focusing on backend integration and user interface component modularity, enhancing 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
- Automated processing of 1030 GB of forensic data to improve eDiscovery throughput

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

Jun 2022 - Aug 2022

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

*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, Atlanta, GA

Aug 2023 - Mar 2024

- Engineered autonomous robot, alongside 4 team members, with ability to complete a series of tasks to send supplies to space
- Implement positioning system in ROS using gyroscope and accelerometer data optimized through mathematical models for data accuracy within 1 degree for all 3 dimensions (yaw, pitch, roll)

*Hardware Designs*, Digital Systems Design, Tuscaloosa, AL

Aug 2023 - Dec 2023

- Created a snake game using the Basys3 FPGA board featuring VGA interface for display output and 6 pushbutton controls with debouncing routines

## SKILLS

Proficiencies: C++, C, Assembly, Java, Python, Javascript, Typescript, HTML, CSS, GraphQL, MATLAB, Verilog, VHDL, Xilinx Vivado, LTSpice, PSpice, FPGA, ASIC, SoC, ROS, Git, Jira, Docker, Microsoft Office (Word, Excel, PowerPoint), Adobe Photoshop

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

Languages: English (Native), Spanish (Professional)

OS: MacOS, iOS, Windows, Linux, Unix, Kali Linux

## ADDITIONAL INFORMATION

Honors: President's List, UA Scholar

Leadership: UA Men's Club Soccer Team Captain

Interests: Soccer, Football, Music Production, Game Development, Cybersecurity