

# John Bumgardner

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Raleigh, North Carolina



## EXPERIENCE

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- **Amazon**  
Software Development Engineer Intern - Seattle, WA  
Incoming intern for Fall 2021  
*August 2021 to December 2021*
- **SAS Institute**  
Software Engineering Intern - Cary, NC  
Collect metadata for cloud based (AWS, Azure, GCP)  
SAS software deployments for performance analysis.  
*May 2020 to August 2021*
- **NC State University**  
Teaching Assistant - Raleigh, NC  
Provided technical assistance and mentorship for student projects in CSC 517 – Object Oriented Design and Development.  
*January 2021 - ongoing*
- **FREEDM Systems Center**  
Software Engineer - Raleigh, NC  
Development of embedded C to maintain high switching frequencies by utilizing timers and interrupts.  
*September 2019 - March 2020*

## EDUCATION

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- **M.S. Computer Engineering**  
North Carolina State University — GPA: 3.76  
2022
- **B.S. Computer and Electrical Engineering**  
North Carolina State University — GPA: 3.76  
2021 — *Summa Cum Laude*

## RELEVANT COURSEWORK

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- **Graduate**  
*Object Oriented Design and Development, Data Science, Advanced Internet Protocols, Random Processes*
- **Undergraduate**  
*Data Structures and Algorithms, Embedded Systems, Software Engineering, Probability and Statistics*

## SKILLS

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- **Technologies**  
C/C++, Python, Java, Ruby, Ruby on Rails, Git, GitHub, Linux, Amazon Web Services, Docker

## PROJECTS

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- **Expertiza** [github.com/expertiza]  
An open-source learning management system centered around peer-learning. Serve as lead developer. Develop tests, improve existing features, add sorting UI elements, extend development environments, and implement CI/CD actions to improve code quality.  
*Ruby on Rails*
- **FatFreeCRM**  
[github.com/fatfreecrm/fat\_free\_crm]  
An open-source customer relationship management software. Improved search functionality and some minor bugs.  
*Ruby on Rails*
- **Congressional Accountability Twitter Bot**  
[github.com/CongressionalTwitterBot]  
A bot to interface with Twitter API to monitor Twitter accounts of US Representatives and Senators and reply with publicly available contact information for constituents to raise questions and concerns.  
*Python, Docker, AWS*

## OTHER HIGHLIGHTS

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- Wrote paper on *Exploring TCP Mechanisms for Handling Deep Space Data Transfer*
- Served as President of *NCSU Institute for Electrical and Electronics Engineers* and created scholarship for ECE undergraduates.

## HOBBIES & INTERESTS

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Education



Problem  
Solving



Politics



Open  
Source