

# WILLIAM BOYLES

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## EDUCATION

**North Carolina State University** 2018 - 2022  
B.S. in Computer Science & Mathematics GPA: 4.0  
University Honors Program, Dean's List, Phi Beta Kappa

## TECHNICAL SKILLS

**Languages:** Python | Java | C# | JavaScript |  $\text{\LaTeX}$  | HTML | CSS | Bash  
**Technologies:** Kubernetes | Docker | Bootstrap | React | Git | Selenium | Jenkins

## EXPERIENCE

**Microsoft** Summer 2021  
*Software Engineering Intern* Redmond, WA

- Created Azure resources to monitor critical infrastructure for failures, improving response times
- Built monitoring tools in Azure for purchase infrastructure, ensuring government compliance
- Deployed solutions to production and airgapped government clouds

**IBM** Summer 2020  
*Cloud & Cognitive Software Intern* Research Triangle Park, NC

- Created Python tool to visualize cloud outages and identify root causes in real-time, driving response improvements
- Developed Python Slack bot to provide actionable, on-demand data to outage responders
- Overhauled data pipeline via a technical redesign, increasing speeds by up to 5900%

**Forsyth Country Day School** Summers 2016 - 2019  
*Engineering Camp Counselor* Lewisville, NC

**Pool Professionals** Summers 2017 - 2019  
*Lifeguard* Winston-Salem, NC

## PROJECTS

**Lights Out** Android Mobile App

- Based on 1990's handheld electronic game, but has more features like dynamic board sizes
- Written in Java using Android Studio with Gradle
- Released for free on Google Play Store for all Android devices

**wmboyles.com** Personal Website

- Personal domain containing resume, detailed projects, and contact info
- Overhauled design to use Bootstrap, increasing mobile usability
- Built using Jekyll, minimizing code redundancy

## RELEVANT COURSEWORK

Software Engineering | Data Structures & Algorithms | Java | C | Operating Systems | Assembly  
Graph Theory | Computational Geometry | Cryptography | Automata, Grammars & Computability | Combinatorics  
Linear Algebra | Calculus | Differential Equations | Statistics