WILLIAM BOYLES

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EDUCATION

North Carolina State University 2018 - 2022
B.S. in Computer Science & Mathematics — Summa Cum Laude, Valedictorian *GPA: 4.0*
University Honors Program, CSC Honors Program, Dean's List (8 semesters), Phi Beta Kappa

TECHNICAL SKILLS

Languages: **Python | Java | C# | JavaScript | 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