

# MICHAEL W. BARILLA

mbarill@ncsu.edu | (704) 999-3239 | portfolio.barillamw.com



## EXPERIENCE

### Accenture,

2020 – Pres.

#### Development Consultant

- Orchestrated a resource deployment strategy that automated and fortified 500 resource deployments utilizing cutting-edge DevOps methodologies and custom build scripts.
- Spearheaded the development of a robust backend database for a medium-scale application, leveraging MySQL database management and the Django framework.
- Led the creation of an enterprise-grade cloud framework, accommodating the needs of over 300 applications, through meticulous requirement gathering in collaboration with clients during a series of comprehensive workshops.

#### Senior Technical Analyst

- Innovated new features and boosted the effectiveness of a deployment accelerator sequencer, enriching a collaborative project with over 75 lines of code contributions.
- Harnessed the potential of third-party API endpoints to gather data from a sprawling enterprise cloud platform, enriching a comprehensive platform assessment.
- Assumed the role of environment administrator for a 450-user sandbox environment, encompassing the creation of hands-on labs, expert guidance to developers, and the implementation of streamlined process automations.

#### Analyst

- Developed a multifactor authentication (MFA) reset application, incorporating user validation through third-party API endpoints, and employing a synergy of PowerShell and PHP programming.
- Crafted comprehensive documentation and runbooks for cloud networking systems, facilitating the onboarding, and training of a 7-person operations team to seamlessly assume resource management responsibilities.

### NC State New Student Programs,

2018 – 2020

#### Developer

- Designed and maintained a dynamic website for event registration and informational updates, accommodating over 300 daily users, while consistently delivering responsive design and real-time content updates, through continuous content management and regular performance optimizations.
- Effectively managed a database containing confidential information for a user base of 15,000, ensuring data integrity, security, and optimal accessibility for seamless operations.

### Lenovo,

2018 – 2018

#### Product Engineering Intern

- Achieved bug replication by designing a robotic system that utilized both physical and programmatic inputs, resulting in improved troubleshooting and analysis capabilities.

## SKILLS

*Languages:* Python, C/C++, Java, Flutter, Django, SQL, PHP, HTML/CSS, JavaScript, PowerShell, Bash  
*RESTful API design, Git, Azure, Web application security, TCP/IP, HTTP/S, DNS, Firewall configuration, Terraform, technical documentation, Markdown, Written and visual presentations.*

## PROJECTS

### Workout Tracking REST API, Python (Django) / MySQL

- Developed a Django-based REST API with JWT user-based authentication for a workout tracking application, enhancing user data security and accessibility.

### Healthy Eating Mobile Application, Flutter / Firebase

- Created a Flutter-based meal tracking app with Firebase integration, promoting healthy habits for low-income workers through a recipe guide and meal planner.

### Plant Care Application, C++ / Kotlin / Python

- Integrated IoT microcontrollers (C++) with an array of sensors and a Kotlin mobile app using HTTP requests for advanced plant monitoring and care.

## EDUCATION

### North Carolina State University

*M.S. Computer Science*

2022 – 2024

*B.S. Computer Engineering & B.S. Electrical Engineering*

2016 – 2020